

MADISON ELECTRIC Company

Wholesale Distributors

6000 WOODWARD AVE.

DETROIT 2, MICH.

TELEPHONE

TRINITY

5-1560

Dick Lanzenhagen
3614 Balfour
Detroit 24 Michigan

Digitized by



ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL
www.apti.org

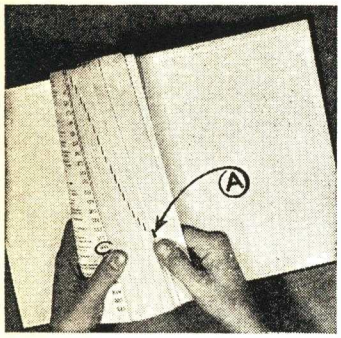
BUILDING
TECHNOLOGY
HERITAGE
LIBRARY

https://archive.org/details/buildingtechnologyheritagelibrary

From the collection of:

Mike Jackson, FAIA

SECTIONAL INDEX



JUST FIND THE NUMBER HERE . . .

Here's the quick, easy way to find just what you are looking for in this catalog:

Just "fan" back the pages as illustrated above. Black guide marks will appear along the spread edge of the book (See Arrow "A") . . . each mark opposite the section as listed here.

Press your right thumb down on the edge of the page containing the black mark selected. Open the catalog, and you are at the beginning of the chosen section, as illustrated below.



. . . AND OPEN TO YOUR SECTION

Conduits and Fittings—Loom—Flexible Steel Conduit—Armored and Non-Metallic Cables—Box Connectors—Hangers—Ground Fittings	6
Outlet and Switch Boxes—Cabinets—Pull, Junction and Floor Boxes	37
Unilets—Condulets—Killark Fittings	58
Raceways and Fittings—Underfloor Distribution Systems—Power and Light Distribution Systems	91
Building Wires—Cables—Cords	123
Wire and Cable Accessories	148
Porcelain—Soldering and Insulating Materials	159
Wiring Devices—Sockets, Receptacles, Plugs, Convenience Outlets, Switches, Plates—Lamp Guards—Flashers	165
Cutouts—Fuses and Accessories	239
Safety Switches—Service Equipment—Industrial Circuit Breakers—Multi-Breakers—Time Switches—Panelboards	247
Switchboard Instruments—Transformers	288
Motors—Manual and Magnetic Starters—Push Button Stations—Pressure, Float and Limit Switches—Theatre Dimmers	293
Infrared Units—Strip and Immersion Heaters—Soldering Irons—Industrial Cleaners—Reelites	314
Fans and Ventilating Equipment—Heaters—Humidifiers	326
Sirens—Howlers—Bells and Buzzers—Annunciators—Nurses Call Systems—Push Buttons—Telephones—Alarm Devices—Relays	337
Pole Line Material—Insulators—Miscellaneous Hardware	359
Drills—Grinders—Motor Maintenance Products—Tools	371
Lighting—Commercial, Industrial and Residential—Glassware—Portable and Adjustable Lamps—Theatre Lighting—Spotlights—Floodlights and Standards	387
Lamps—Door Chimes—Fluorescent Lamp Ballasts—Lanterns—Flashlights—Batteries	519
Useful Information	536
Alphabetical Index	544

On April 15, 1914, with a background of thirteen years experience in the electrical supply jobbing business, Morris H. Blumberg started in business for himself under the name of Morris H. Blumberg Electric Company in rather small quarters on Woodward Avenue.

His aim at that time was to distribute the very best lines of electrical supplies and lighting equipment, also to serve the industrial and contracting trade in Detroit Metropolitan area as its requirements demanded. The firm has never wavered from that original ideal.

The business has steadily progressed and several moves have been made to acquire larger and more suitably located quarters.

On April 15, 1931, the Corporation took the name of Madison Electric Company with the same management.

Now the main office and warehouse consists of about 55,000 square feet of floor space and there are three branches located at strategic points to give the best possible service.

Today, as always, we are distributing the top lines in the industry. It shall always be our pleasure to thus serve our customers and to merit the confidence they have placed in us.

Morris H. Blumberg, Pres.

Max Blumberg, V. Pres. and Treas.



6000 WOODWARD
TRinity 5-1560





11072 GRATIOT
LAkeview 7-9300

14635 SCHAEFER RD.
VErmont 7-2400



4618 GREENFIELD RD.
TIffany 6-3600

PARTIAL LIST OF MANUFACTURERS
WHOSE LINES ARE DISTRIBUTED BY MADISON ELECTRIC COMPANY

A-A Electric Mfg. Co.
Ackerman-Johnson Co.
Acme Lantern Co.
Adalet Mfg. Co., The
Adam Electric Co., Frank
Adapti Co., The
Allied Electric Products, Inc.
All-Steel-Equipment Inc.
American Electrical Heater Co.
Anderson Mfg. Co., Albert & J.M.
Appleman Art Glass Works
Appleton Electric Co.
Appleton Rubber Co.
Armstrong Mfg. Co.
Arrow-Hart & Hegeman Electric Co.
Art Metal Co.
Atlas Elec. Products Co.
Austin Co., M.B.
Auth Electric Company, Inc.
Automatic Switch Co.

Barkelew Electric Mfg. Co., The
Benjamin Electric Mfg. Co.
Betts & Betts Corp.
Biddle Co., James G.
Black & Decker Mfg. Co.
Blackburn Products Corp., Jasper
Brach Mfg. Corporation, L. S.
Briegel Method Tool Co.
Bright Light Reflector Co.
Buchanan Electrical Products Co., Inc.
Bull Dog Electric Products Co.
Burndy Engineering Co., Inc.
Bussman Mfg. Co.

Cable Electric Products, Inc.
Cannon Electric Development Co.
Carboloy Co., Inc.
Century Lighting Equipment, Inc.
Champion DeArment Tool Co.
Chase-Shawmut Co.
Chelsea Products, Inc.
Chicago Transformer Division
(Essex Wire Corp.)
Circle F Mfg. Co.
Clayton & Lambert Mfg. Co.
Collyer Insulated Wire Co.
Columbia Cable & Electric Co.
Columbia Electric Mfg. Co.
Columbia Metal Box Co.
Compco Corp.
Conduit Pipe Products Co.
Connecticut Telephone & Electric Co.
Copperweld Steel Co.
Corning Glass Works
Couch Co., Inc., S. H.
Crescent Insulated Wire & Cable Co.
Crouse-Hinds Co.
Curlee Mfg. Co., W. F.
Curtis Lighting, Inc.
Cutler-Hammer, Inc.

Davis Manufacturing Co.
Day-Brite Lighting, Inc.
Dazor Mfg. Corp.
Delta Electric Co.
Delta-Star Electric Co.
Detroit Industrial Products Co.
Diamond Expansion Bolt Co.
Diehl Mfg. Co.
Dongan Electric Mfg. Co.
Dossert Mfg. Corp.
Dunton Co., M. W.

Eagle Electric Co.
Economy Fuse & Mfg. Co.
Edwards & Co.
Efcolite Inc.
Electric Service Mfg. Co.
Electric Soldering Iron Co.
Electrical Engineering Equipment Co.
Electrical Fittings Corp.
Electro Compound Co.
Electro-Line Fence Co.
Electro Mfg. Co.
Elgo Shutter & Mfg. Co.
Emeralite Co., Inc.
Ericson Mfg. Co.
Erie Glass & Mfg. Co.

Faraday Electric Corp.
Faries Mfg. Co.
Federal Enterprises, Inc.
Federal Electric Products Co.
Feedrail Corp.
Fenwal, Incorp.
Fostoria Pressed Steel Corp., The
Frankel Connector Co., Inc.
Fresh'nd-Aire Co.
Frink Corp., The
Fullman Mfg. Co.
Furnas Electric Co.

G & W Electric Specialty Co.
Garden City Plating & Mfg. Co.
Gaynor Electric Co.
General Day-Lite Company
General Electric Co.
General Electric Co., Lamp Department
General Luminescent Co.
Gill Glass & Fixture Co.
Gold-E Mfg. Co.
Goodrich Lighting Equipment
Great Western Fuse Co.
Greenlee Tool Co.
Gruber Brothers
Guth Co., Edwin F.

Haring Switch Plate Co.
Hartford Prod. Corp.
Halcolite Co.
Hart & Hegeman Division
Hewitt Metals Corp.
Hinkley Co., Phil R.
Holdenline Co.
Holophane Co.
Holub Industries, Inc.
Hopax Devices, Inc.
Hubbell Inc., Harvey
Huenefeld Co., The
Hunter Fan & Ventilating Co., Inc.
Hykon Mfg. Co.

Ideal Industries, Inc.
Imperial Lighting Products Co.
Inland Glass Works Inc.
I-T-E Circuit Breaker Co.

Jefferson Electric Co.
Jenkins Brothers
Johns-Manville Co.
Joslyn Mfg. & Supply Co.

Kearney Corp., James R.
Kellems Co.
Kent Metal Mfg. Co., Inc.
Kett Tool Co., The
Killark Electric Mfg. Co.
Kindorf Company, The
Kirlin Co., The
Kliegl Bros. Universal Elec.
Stage Ltg. Co., Inc.
Klein & Sons, Mathias
Knox Porcelain Corp.
Knight Electrical Products Corp.
Kurt Versen Co.
Kopp Glass, Inc.
Korns Co., C. C.
Kraeuter & Co., Inc.
Kuhlman Electric Mfg. Co.

Lamb & Ritchie Co.
Lau Blower Company, The
Leader Electric Mfg. Corp.
Lenk Mfg. Co., The
Leviton Mfg. Co.
Lew Fittings Co.
Liberty Bell Mfg. Co.
Lightolier Co.
Line Material Co.
Lint, Clyde W.
Litecraft Mfg. Co.
Littlefuse, Inc.
Lloyd Products Co., The

M. & W. Electric Mfg. Co.
Madison Equipment Co.
Mark & Co., Clayton
Markel Electric Products, Inc.
Martindale Electric Co.
Matthews Corp., W. N.
McGill Mfg. Co., Inc.
McKinley-Mockenhaupt Company
Mephisto Tool Co.
Mercoid Corp., The
Metropolitan Device Corp.
Mica Insulator Co.
Micro Switch Division
Mid West Metal Products Co.
Millers Falls Co.
Minerallac Electric Co.
Minneapolis Electric & Const. Co.
Minneapolis-Honeywell Regulator Co.
Minnesota Mining & Manufacturing Co.
Misener Mfg. Co.
Mitchell Mfg. Co.
Moe Brothers Mfg. Co.
Moe-Bridges Corp.
Morse Co., Frank W.
Mueller Electric Co.
Multi Electrical Mfg. Co.
Murdock Co., Wm. J.
Mu-Switch Corp.

National Appliance Co.
National Carbon Co., Inc.
National Electric Products Corp.
Nischan Products Co.

Noblitt-Sparks Industries, Inc.
North American Electric Lamp Co.
Northern Light Co.
Novelty Lighting Corp.
NuTone, Inc.

Okonite Co., The
Onan & Sons, D. W.
O. Z. Electrical Co., Inc.

Paine Co.
Paragon Electric Co.
Paranite Wire & Cable Division
Pass & Seymour, Inc.
Paulding, Inc., John I.
Payne Products Co.
Penn-Union Electric Corp.
Perfeclite Co., The
Pierce Laboratory, Inc.
Pittsburgh Reflector Co.
Plume & Atwood Mfg. Co.
Plymouth Rubber Co., Inc.
Porcelain Products, Inc.
Progress Mfg. Co.
Pryne & Co., Inc.
Pyle-National Co.

Queen Products Company Inc.

Radiant Lamp Corp.
Ralco Mfg. Co.
Rattan Mfg Co., The
Rawlplug Co., Inc.
Ray-O-Vac Co.
Reliance Automatic Lighting Co.
Revere Electric Mfg. Co.
Reynolds Electric Co.
Rhodes, Inc., M. H.
Rittenhouse Co., A. E.
Robertson Chemical Co.
Rodale Mfg. Co.
Roll-A-Reel Co.
Rome Cable Corp.
Royal Electric Co.
Ruby-Philite Corp.
Rusgreen Mfg. Co.
Russell & Stoll Co.

Sangamo Electric Co.
Seyler Mfg. Co.
Signal Electric Mfg. Co.
Simplex Wire & Cable Co.
Sherman Mfg. Co., H. B.
Smith Mfg. Co., F. A.
Smithcraft Lighting Division
Sola Electric Co.
Solar Light Mfg. Co.
Spero Electric Corp.
Square D Co.
Star Expansion Bolt Co.
Steber Mfg. Co.
Steel & Tubes Division
Steel City Electric Co.
Sterling Mfg. Co.
Struthers-Dunn, Inc.
Sunlight Electrical Co.
Sunlite Mfg. Co., The
Swivelier Co.
Sylvania Electric Products, Inc.
Syntron Co.

Talk-A-Phone Co.
T. B. F. Company
Thomas & Betts Co.
Time-O-Matic Co.
Tork Clock Co., Inc.
Tuttle & Co., H. W.
Tripart Mfg. Co.

U-C Lite Mfg. Co.
Union Insulating Co.
Unistrut Products Co.
United States Electric Mfg. Co.
United States Rubber Co.
Universal Clay Products Co., The
Uptegraff Co., R. E.

Van Cleef Brothers
Van Dorn Electrical Tool Co., The
Verd-A-Ray Corp.
Virden Co., John Co.
V. V. Fittings Co.

Wadsworth Electric Mfg. Co.
Wagner Electric Corp.
Wagner Malleable Products Co.
Wakefield Brass Co., The F. W.
Waldman, John J.
Ward Leonard Electric Co.
Western Insulated Wire Co.
Weston Electrical Instrument Corp.
White Co., O. C.
Wiegand Co., Edwin L.
Wiremold Co.
Wirt Co.
Woohead Co., Daniel
Woods Specialty Mfg. Co.
Worner Electronic Devices

General Information

In compiling this Catalog, we have endeavored to make it a complete and up-to-date sales reference book of electrical supplies, illustrating and describing material for which there is an active demand. Special catalogs, bulletins and prices furnished upon request, covering supplies not fully described, or shown in this catalog.

LIST PRICES

The list prices in this catalog **are not guaranteed** but agree with latest correct list prices at time of issue. They are not offered as quotations, and are subject to market changes without notice.

TERMS

To parties of approved credit, net thirty days, subject to standard cash discounts. Unless your standing is known to us or you have a rating with the Commercial Agencies, we recommend that you accompany your first order with references to avoid delay in looking up your credit. C.O.D. orders must be accompanied by a remittance sufficient to pay express or freight charges both ways to insure us against loss should shipment be refused.

ORDERS

When ordering always use manufacturer's name and page numbers, and give name of article. Orders should be kept separate from all other correspondence if included in the body of a letter, both the order and the reply to the letter may be delayed.

ROUTING SHIPMENTS

Customers should send shipping instructions with all orders; but if this is not done, we will use our own judgment in selecting route.

We maintain a very extensive fleet of trucks for delivery service in the Detroit Metropolitan area. If deliveries are required outside of this area or in the case of direct factory shipments, we will use our own judgment as to routing and method of shipping unless more specific instructions are given at time of placing the order.

LOSS AND DAMAGE IN TRANSIT

We do not hold ourselves responsible for any loss or damage sustained in transit, and claims of such character should be made promptly against carrier; but if we are notified of such claims, we will gladly lend our assistance to secure adjustment. We employ experienced packers and cannot be held responsible for breakage that occurs after we have obtained good order receipt from transportation companies.

SHORTAGE

All shipments are double checked, to prevent errors and shortages. Claims for shortages must be made to us promptly.

REELS

Reels are always charged; credit, however, will be allowed for full amount when returned to the factory in good order, by freight, within one year from date of invoice. Always remit for reels at time invoice covering wire is paid. When ready to return reels, write us for shipping instructions. We promptly remit for reels as soon as received and checked at original shipping point.

RETURNING GOODS

No goods should be returned for credit or exchange without first obtaining permission. We stand ready at all times to rectify any mistake that we make, and without the least cost to our customers, but, under no circumstances, should goods be returned without first consulting us for shipping instructions. We will not receive goods returned without our authorization.

CLAYTON MARK "ELECTRICTUBE" ELECTRICAL METALLIC TUBING

THINWALL RIGID STEEL CONDUIT

Underwriters' Approved



Electrictube is made of best quality open hearth steel, cold rolled to insure uniform gauge and smooth surfaces on both sides. The coils of steel strip are fabricated into tubes perfectly circular in form and homogeneously electrically welded by direct current, without interior or exterior ridge or groove at the seam. Tubes are held to accurate exterior diameter, thereby insuring satisfactory use of any standard dimension threadless fitting. Interior diameter is the same as standard rigid steel conduit pipe of the same nominal size.

The steel used in the production of Electrictube is of the quality which assures easy bending of tube and end flanging without break or fracture. Tubes are of exact 10-foot lengths; they are straight, with square end cuts, and free from inside or outside burr.

Exterior surface is coated by the electroplating process, permitting a coating of 100 per cent pure zinc which is evenly deposited into the pores of the steel. This coating cannot crack when bent.

The Electrictube interior surface is coated with a specially-developed enamel. The enamel is baked to the exact temperature which insures complete ease in pulling of wires. It will not soften under any working temperature, nor will it flake or chip when subjected to extreme bends and turns.

ELECTRICTUBE

Size Inches	Wt. Lbs. Per 1000 Ft.	Diameter Internal	Diameter External	Feet Per Bdle.
½	321	.622	.706	100
¾	488	.824	.922	100
1	711	1.049	1.163	100
1¼	1000	1.380	1.508	50
1½	1180	1.610	1.738	50
2	1500	2.067	2.195	30

Furnished in 10-foot lengths without couplings. Weights and dimensions are nominal.

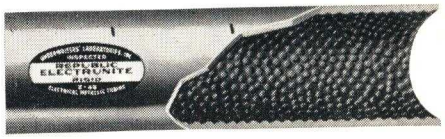
ELBOWS



Size Inches	Radius Inches	Offset Inches	Wt. Lbs. Per 100
1	5.750	8.750	100
1¼	7.250	10.500	144
1½	8.250	11.750	180
2	9.500	13.500	277

REPUBLIC ELECTRUNITE† E.M.T.

The Lightweight Threadless Rigid Steel Conduit



Republic Electrunite E.M.T. — the original, low-cost electrical metallic tubing — always has been easy to install. Its light weight makes it easy to handle. Three simple compression-type fittings end tedious, dirty thread cutting — adapt Electrunite E.M.T. to any job. It is easy to cut and bend by hand. The patented knurled inside surface makes wire pulling as much as 30 per cent easier.

Every piece of "Inch-Marked" Electrunite E.M.T. is plainly and accurately marked off in feet and inches along the entire length. Your mark for cutting or bending is already made. Guesswork is eliminated and chance for material-wasting errors reduced.

With every shipment of tubing, an ample supply of bending instruction tags gives simple, complete instructions for making various types of bends.

"Inch-Marked" Electrunite E.M.T. is fully approved by the National Electrical Code for exposed, concealed or concrete installations.

REPUBLIC ELECTRUNITE E.M.T.

Size Inches	Approx. Wt. Lb. Per 1000 Ft.	Diameter Internal	Diameter External	Ft. to a Bundle
⅜	250	.493	.577	200
* ½	321	.622	.706	100
* ¾	488	.824	.922	100
*1	711	1.049	1.163	100
1¼	1000	1.380	1.508	50
1½	1180	1.610	1.738	50
2	1500	2.067	2.195	30

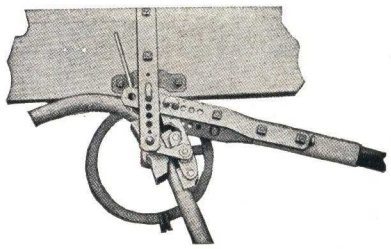
*Available with knurled inside finish and "Inch-Marked"

ELBOWS*

Elbow Size Inches	Radius to Center Line Inches (90°)	Offset Inches (90°)	Straight Leg or Tangent Inches (90°)	Weight Lbs. Per 100 Pcs. (90°)	Std. Pkg. (90°)
1	5.750	7.812	2.062	80	25
1¼	7.375	9.375	2.000	134	25
1½	8.625	10.625	2.000	188	10
2	9.500	12.375	2.875	255	10

*45° elbows are also available.

HOSSFELD BENDER

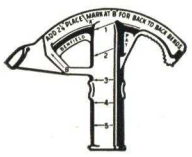


Makes full, round, smooth bends with one sweep of the hand lever on sizes 1¼-inch and smaller. Bends on 1½ and 2-inch are made by feeding the tube into the bender. Available with dies for all sizes from ½ to 2-inch, inclusive. May be had with all dies or with only dies for sizes required. Shipping weight, 190 lbs.

†Reg. U. S. Pat. Off.

REPUBLIC BENDING TOOLS

ELECTRUNITE "INCH-MARKED"* BENDER



Will enable the electrician to use the Electrunite Bending System with "Inch-Marked" Republic Electrunite E.M.T. to best advantage. It is a one-piece casting with no moving parts to get out of order. It predetermines stubs, back-to-back, offset and saddle bends to exact dimensions. It produces any standard type or radius bend accurately and easily. Simple instructions and markings are cast into the bender — cannot be lost.

Cat. No.	Size Inches	Std. Pkg.	Wt. Lb. Per 100
1472	½	10	250
1473	¾	10	420
1474	1	2	800

*Reg. U.S. Pat. Office.

E.M.T. HICKEY



Makes bends of any desired radius. To prevent kinking, the tube should be "inched" through, not more than ten degrees being pulled at a time. An excellent tool for stubbing-up in concrete work, and for making short or close bends.

Cat. No.	Size Inches	For Use with Pipe Handle	Std. Pkg.	Wt. Lb Each
2195	½	¾-inch	1	1¾
2196	¾	1 -inch	1	2¾
2197	1	1 -inch	1	4
2198	1¼	1¼-inch	1	10
2199	1½	1¼-inch	1	12½
2200	2	1½-inch	1	15

APPLETON BENDING TOOLS

For Electrical Metallic Tubing



BENDING TOOL

Especially designed for bending Electrical Metallic Tubing. Makes bends in exactly the right place and with very little effort.

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Each	Price Schedule
14195	½	1	2½	"TW"
14196	¾	1	4⅛	"TW"
14197	1	1	7	"TW"

BENDING HICKEYS



This hickey is of special design for short bends, tight corners and for "stubbing up" in concrete work.

Cat. No.	Size In.	Description	Wt. Lbs. Each	Price Schedule
12195	½	(Use ¾" pipe handle)	1¾	"TW"
12196	¾	(Use 1" pipe handle)	2¾	"TW"
12197	1	(Use 1" pipe handle)	4	"TW"
12198	1¼	(Use 1¼" pipe handle)	10	"TW"
12199	1½	(Use 1¼" pipe handle)	12½	"TW"
12200	2	(Use 1½" pipe handle)	15	"TW"

REPUBLIC MANDREL SPRINGS



A coil spring designed for use in connection with moving stubs in concrete and in making very short radius bends either with or without the use of the E.M.T. Hickey. The spring fits snugly inside the tubing and acts as a mandrel to support the wall and eliminate the possibility of kinking at the point of bend. After the bend is made, the spring can be removed easily by backing up slightly on the bend, or by twisting the spring.

Cat. No.	Size Inches	Description	Wt. Lb. Each
50	½	Use inside ½-inch size	½
75	¾	Use inside ¾-inch size	1

UTILITY TOOL

NO. 2000 UTILITY TOOL

For All Electrical Metallic Tubing Jobs



Indispensable for use in Electrical Metallic Tubing work. The wrench ends will fit all locking nuts $\frac{15}{16}$-inch and $1\frac{3}{16}$-inch hexagons used with ½-inch and ¾-inch Electrical Metallic Tubing. Drop forged from selected steel. Heat treated and tempered. Heavily plated with polished heads.

Cat. No.	Size Inch	Display Carton	Wt. Lbs. Per Doz.	Price Schedule
2000	½ and ¾	12	5	"TW"

B-M CONNECTORS AND COUPLINGS (INDENTER TYPE)



B-M CONNECTOR

For use with Electrical Metallic Tubing. Cadmium finish.

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price per 100 Less Carton	Carton Quan.	Std. Pkg.
B-M 21	½	50	200	6	$8.40	$7.60	$6.95
B-M 22	¾	25	100	12	13.85	12.65	11.50
B-M 23	1	10	50	15	22.90	21.85	21.20



B-M COUPLING

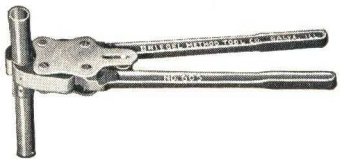
For use with Electrical Metallic Tubing. Cadmium finish.

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price per 100 Less Carton	Carton Quan.	Std. Pkg.
B-M 41	½	50	200	5	$8.20	$7.45	$6.75
B-M 42	¾	25	100	10	10.75	9.80	8.90
B-M 43	1	10	50	12	17.30	15.75	14.25

BRIEGEL METHOD TOOLS

For Use with Electrical Metallic Tubing

B-M INDENTER NO. 605



A small light tool for installing the ½-inch fittings only. Two squeezes on the handles, and the fitting is securely fastened to the Electrical Metallic Tubing.

Price, No. **605** Indenter.....each **$2.45**

B-M INDENTER NO. 600



By means of interchangeable jaws this Indenter can be used with ½, ¾ or 1-inch fittings.

Description	Price Each
Indenter only	$3.65
½-inch Indenter Jaws, No. 6000	2.45
¾-inch Indenter Jaws, No. 6001	2.45
1-inch Indenter Jaws, No. 6002	2.45
Indenter Points for Nos. B-M 605, 6000, 6001, and 6002 Indenter Jaws.....per doz.	.60

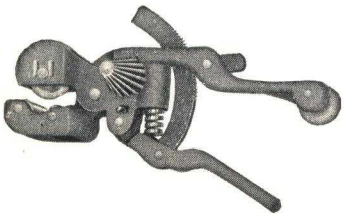
B-M TUBE HOLDER NO. 1000



For ½ to 1-inch sizes inclusive. This simple tube holder enables user to easily hold the Electrical Metallic Tubing in one hand while cutting and burring the tube. Will not distort tube, or damage the outside finish of the tube.

Price, No. **1000** Tube Holder.....each **$2.10**

B-M TUBE CUTTER NO. 100



It is only necessary to compress the handles once to apply uniform pressure on the cutting wheel. The tube is cut perfectly square with no burr on outside and very little burr on the inside. A reamer is attached to remove the burr from the inside of the tube. Cuts ½-inch tube in 10 turns. For ½-inch to 1-inch sizes inclusive.

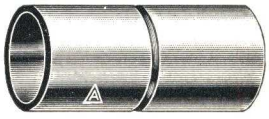
Price, No. **100** Tube-Cutter.....each **$6.05**
Cutter Wheel only for B-M Cutter Tool..... **1.40**

APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use with Electrical Metallic Tubing (Threadless Thin-Wall Conduit)

COUPLINGS AND CONNECTORS





Size In.	Carton	Std. Pkg.	Couplings Cat. No.	Couplings Pkg. Wt. Lbs.	Couplings Price Schedule	Connectors Cat. No.	Connectors Pkg. Wt.	Connectors Price Schedule
½	50	200	**97T050**	10	"TW"	**98T050**	12	"TW"
¾	25	100	**97T075**	10	"TW"	**98T075**	12	"TW"
1	10	50	**97T100**	6	"TW"	**98T100**	7½	"TW"

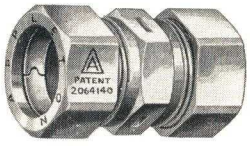
INDENTER TOOLS AND POINTS



Cat. No.	Description	Price Schedule
14200	Indenter Tool complete with points for ½-inch E.M.T.	"TW"
14201	Indenter Tool complete with points for ¾-inch E.M.T.	"TW"
14202	Indenter Tool complete with points for 1-inch E.M.T.	"TW"
14210	Indenter Points for all ½, ¾, and 1-inch Indenter Tools	"TW"

COMPRESSION RING TYPE COUPLINGS AND CONNECTORS—RAINTIGHT

For Electrical Metallic Tubing



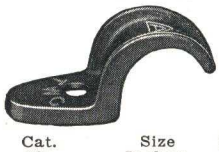
Patent 2064140 Coupling Compression Ring Type Approved Raintight



Patent 2064140 Connector Compression Ring Type Approved Raintight

Size In.	Carton	Std. Pkg.	Couplings Cat. No.	Couplings Wt. Lb. Per 100	Connectors Cat. No.	Connectors Wt. Lb. Per 100	Price Schedule
⅜	50	200	**95T038**	12	**96T038***	10	"TW"
½	50	200	**95T050**	13	**96T050**	11	"TW"
¾	25	100	**95T075**	15	**96T075**	13	"TW"
1	25	50	**95T100**	20	**96T100**	20	"TW"
1¼	5	25	**95T125**	50	**96T125**	50	"TW"
1½	2	10	**95T150**	80	**96T150**	60	"TW"
2	2	5	**95T200**	140	**96T200**	100	"TW"

*No. 96T038 connector is designed to take ⅜-inch Electrical Metallic Tubing, and the other end is threaded and furnished with locknut to fit in regular ½-inch K.O.



ONE-SCREW MALLEABLE CLAMPS

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
171T49	⅜	200	2000	3	"TW"
171T50	½	200	2000	3¾	"TW"
171T51	¾	200	1000	5½	"TW"
171T52	1	100	500	7	"TW"
171T53	1¼	100	500	11	"TW"
171T54	1½	50	500	15	"TW"
171T55	2	50	250	17	"TW"

APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use with Electrical Metallic Tubing (Thin-Wall Conduit)

TYPE FEBS FITTINGS



½-inch size with Combination 2, 3 and 4-wire Bakelite cover; 2 holes plugged. ¾ to 1¼-inch sizes, with Combination 2, 3, 4 and 5-wire Bakelite covers; 2 holes plugged. 1¼-inch size (FT125S) with Combination 4, 5, 6 and 7-wire Composition cover; 3 holes plugged. 1½ and 2-inch sizes, with Combination 2, 3, 4, 5 and 6-wire Bakelite covers; 4 holes plugged.

Cat. No.	Size In.	Insulator	Size of Holes	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
FT- 50	½	4	4–$\frac{5}{16}$	5	50	55	"TW"
FT- 75	¾	5	3–$\frac{13}{32}$, 2–⅜	5	50	63	"TW"
FT-100	1	5	3–½, 2–$\frac{13}{32}$	2	20	105	"TW"
FT-125	1¼	5	3–⅝, 2–$\frac{13}{32}$	1	10	145	"TW"
FT-125S	1¼	7	5–$\frac{11}{16}$, 2–$\frac{9}{16}$	1	10	21	"TW"
FT-150	1½	6	3–$\frac{13}{32}$, 2–$\frac{9}{16}$, 1–⅜	1	5	260	"TW"
FT-200	2	6	3–1, 2–¾, 1–$\frac{17}{32}$	1	5	520	"TW"

TYPE SLAY FITTINGS

Approved Raintight

With flanged cover and gasket. Will be supplied with sealing screws when specified at no additional charge.



Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
317T90	½	10	50	38	"TW"
317T91	¾	10	20	42	"TW"
317T92	1	5	10	35	"TW"
317T93	1¼	1	10	30	"TW"

COMBINATION NO-THREAD COUPLINGS



For Connecting Flexible Steel Conduit to Electrical Metallic Tubing.

Cat. No.	Size In.	Designed to Hold	Max. Dia. Hole	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
18854	½	⅜" Flex.	....	10	50	9	"TW"
18855	½	½" Flex.	$\frac{15}{16}$	10	50	10	"TW"
18856	¾	¾" Flex.	1⅛	10	50	14	"TW"

90-DEGREE SHORT ELBOW



Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
73T90	½	25	50	11	"TW"
73T91	¾	25	50	16	"TW"
73T92	1	5	25	13	"TW"



TYPE FEL SPECIAL ENTRANCE ELL

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
37T90	½	25	100	30	"TW"
37T91	¾	5	50	26	"TW"
37T92	1	5	25	24	"TW"
37T93	1¼	5	25	34	"TW"

APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use with Electrical Metallic Tubing (Thin-Wall Conduit)

ADAPTERS



Adapter

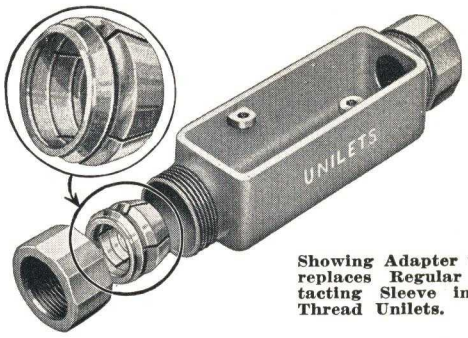


Type "C" Rectangular Threaded Unilet with No-Thread Adapter for Electrical Metallic Tubing

Any Appleton Threaded Unilets or similar fittings made by other manufacturers will take Electrical Metallic Tubing with the use of this Adapter screwed into the hub of any ⅜ to 2-inch Threaded type Fittings and grips the conduit securely. This Adapter practically makes a no-thread fitting out of any Threaded Conduit fitting.

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
80T59	⅜	50	200	1½	"TW"
80T60	½	50	200	1½	"TW"
80T61	¾	25	100	5	"TW"
80T62	1	25	50	6	"TW"
80T63	1¼	10	20	10	"TW"
80T64	1½	5	10	15	"TW"
80T65	2	2	5	20	"TW"

ADAPTERS FOR USE WITH STANDARD NO-THREAD UNILETS



Showing Adapter which replaces Regular Contacting Sleeve in No-Thread Unilets.

Designed for use in hubs of ½ to 2-inch Rectangular and other types of No-Thread Unilets for Heavy-Wall Conduit. The contacting Sleeve regularly furnished with the No-Thread Unilets must be removed and this Electrical Metallic Tubing Adapter inserted. Knurled nut is then screwed down and Electrical Metallic Tubing held firmly.

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
80T30	½	50	200	3½	"TW"
80T31	¾	25	100	6¼	"TW"
80T32	1	25	50	9½	"TW"
80T33	1¼	10	20	13½	"TW"
80T34	1½	5	20	21	"TW"
80T35	2	2	5	33½	"TW"



NO-THREAD END FITTING

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
71T90	½	20	100	28	"TW"
71T91	¾	15	50	29	"TW"
71T92	1	10	25	29	"TW"
71T93	1¼	5	10	37	"TW"
71T94	1½	5	10	38	"TW"
71T95	2	1	5	17	"TW"

NATIONAL ELECTRIC RIGID STEEL CONDUIT

SHERARDUCT—SHERARDIZED

Full Weight—Threaded



Sherarduct differs from other types of zinc-coated conduit in its superior protection against rust. In Sherardizing, the pipe is placed in iron retorts, surrounded by finely-divided zinc and tightly sealed. The retorts are rolled slowly through a furnace where they are maintained at a temperature of about 800° F. for four to five hours. The zinc coating thus obtained is not merely a covering, it is alloyed with the steel, inside, outside and on the threads. Sherardizing is further protected by a coating of clear enamel, applied over the zinc. This resists acids or similar fumes, which zinc alone will not withstand. On account of the heat to which it is subjected in Sherardizing, Sherarduct is exceptionally easy to bend without flaking or cracking.

ECONOMY—BLACK ENAMELED FINISH



Protected inside and outside by hard, elastic, black enamel, thoroughly baked. The enamel is removed from the threads at the factory, to save work on the job.

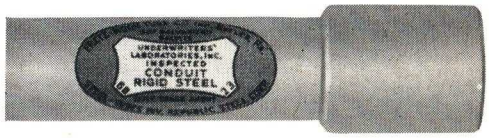
Conduit					
Nominal Inside Diam. In.	Diam., In. External	Diam., In. Internal	Wall Thick., In.	Wt.,Lbs., Per 1000 Ft.	Threads Per Inch
¼	.540	.364	.088	425	18
⅜	.675	.493	.091	568	18
½	.840	.635	.1025	852	14
¾	1.050	.837	.1065	1134	14
1	1.315	1.070	.1225	1684	11½
1¼	1.660	1.409	.1225	2281	11½
1½	1.900	1.633	.1335	2731	11½
2	2.375	2.094	.1405	3678	11½
2½	2.875	2.520	.1865	5819	8
3	3.500	3.102	.199	7616	8
3½	4.000	3.588	.206	9202	8
4	4.500	4.072	.214	10889	8
4½	5.000	4.548	.226	12642	8
5	5.563	5.097	.233	14810	8
6	6.625	6.109	.258	19185	8

Couplings		Elbows		
Size of Pipe, In.	Wt.Lbs. Per 100	Radius, Inches	Offset, Inches	Wt.Lbs. Per 100
¼	6.0	3.850	6.375	41
⅜	9.5	3.917	6.437	55
½	11.6	4.000	6.500	82
¾	20.9	4.500	7.250	109
1	34.3	5 750	8.625	201
1¼	53.5	7.250	10.000	313
1½	74.3	8.250	11.000	441
2	120.8	9.500	13.625	707
2½	172.0	10.500	15.687	1411
3	249.8	13.000	17.750	1850
3½	424.1	15.000	20.000	2979
4	474.1	16.000	21.312	3528
4½	550.0	18.000	23.500	4310
5	700.0	24.000	29.000	6575
6	750.0	30.000	36.500	9645

Shipped in lengths of 10 feet. Each length threaded on both ends and supplied with one coupling.

FRETZ-MOON RIGID STEEL CONDUIT

GALVITE—ENAMELITE



Galvite



Enamelite

FRETZ-MOON CONDUIT is made by a scientifically controlled continuous welding process. As a result it is highly ductile and free from "burnt" spots that might cause cutting, threading, or bending troubles. The inside surface is clean and free from burrs and rough spots. Welds are strong and will not open even under severe abuse.

GALVITE is hot dipped galvanized inside and out in such manner that an alloy bond results between the zinc and the pipe, preventing chipping or flaking. A coat of clear lacquer on the inside and outside adds to this protection.

ENAMELITE is protected inside and out by a tough coating of baked-on black enamel.

Conduit					
Size In.	Weight Lbs. Per Foot	Diameters, In. External	Diameters, In. Internal	Thick-ness, Inch	Threads per Inch
¼	.425	.540	.364	.088	18
⅜	.568	.675	.493	.091	18
½	.852	.840	.622	.109	14
¾	1.134	1.050	.824	.113	14
1	1.684	1.315	1.049	.133	11½
1¼	2.281	1.660	1.380	.140	11½
1½	2.731	1.900	1.610	.145	11½
2	3.678	2.375	2.067	.154	11½
2½	5.819	2.875	2.469	.203	8
3	7.616	3.500	3.068	.216	8
3½	9.202	4.000	3.548	.226	8
4	10.889	4.500	4.026	.237	8
5	14.810	5.563	5.047	.258	8
6	19.185	6.625	6.065	.280	8

	Couplings	Elbows				
Size In.	Wt. Lbs. Per Pc.	Wt. Lbs. Per Pc.	Radius In.	Tangent In.	Offset In.	Lgth. of Thr'd, In.
¼	.060	--------	--------	------	--------	------
⅜	.095	--------	--------	-----	--------	-----
½	.116	.82	4	2¾	6¾	.75
¾	.209	1.09	4½	2¾	7¼	.76
1	.343	2.01	5¾	2¾	8½	.94
1¼	.535	3.13	7¼	3¼	10½	.97
1½	.743	4.41	8¼	3¼	11½	.98
2	1.208	7.07	9½	4	13½	1.12
2½	1.720	14.11	10½	4¼	14¾	1.51
3	2.498	18.50	13	4¼	17¼	1.57
3½	4.241	29.79	15	4¾	19¾	1.62
4	4.741	35.28	16	5	21	1.67
5	7.000	65.75	24	6⅛	30⅛	1.78
6	7.500	96.45	30	6½	36½	1.89

Conduit is furnished in 10-ft. lengths, threaded both ends, with coupling screwed on one end and a thread protector on the other.

Conduit is always designated by its nominal inside diameter. All weights and dimensions shown above are nominal.

APPLETON CONDUIT FITTINGS

RIGID CONDUIT NIPPLES

Galvanized Finish Only



Close Nipple



Short Nipple

Right-hand thread. Note the deep, clear-cut threads.

Close Nipples

Pipe Size	Length Inches	Cat. No.	Carton Quan.	Price Schedule
⅛	¾	16200	100	"CFS"
¼	⅞	16201	100	"CFS"
⅜	1	16202	100	"CFS"
½	1⅛	16203	50	"CFS"
¾	1⅜	16204	25	"CFS"
1	1½	16205	25	"CFS"
1¼	1⅝	16206	20	"CFS"
1½	1¾	16207	10	"CFS"
2	2	16208	5	"CFS"
2½	2½	16209	5	"CFS"
3	2⅝	16210	5	"CFS"
3½	2¾	16211	1	"CFS"
4	2⅞	16212	1	"CFS"

Short Nipples

⅛	1½	16220	100	"CFS"
¼	1½	16221	100	"CFS"
⅜	1½	16222	100	"CFS"
½	1½	16223	50	"CFS"
¾	2	16224	25	"CFS"
1	2	16225	25	"CFS"
1¼	2½	16226	5	"CFS"
1½	2½	16227	5	"CFS"
2	2½	16228	5	"CFS"
2½	3	16229	5	"CFS"
3	3	16230	5	"CFS"
3½	4	16231	1	"CFS"
4	4	16232	1	"CFS"

2 and 3-inch Long Conduit Nipples

Pipe Size	2-inch Long: Cat. No.	Carton Quan.	Price Schedule	3-inch Long: Cat. No.	Carton Quan.	Price Schedule
⅛	16240	50	"CFS"	16260	50	"CFS"
¼	16241	50	"CFS"	16261	50	"CFS"
⅜	16242	50	"CFS"	16262	50	"CFS"
½	16243	25	"CFS"	16263	25	"CFS"
¾	.....	....	....	16264	25	"CFS"
1	.....	....	.....	16265	10	"CFS"
1¼	.....	....	.....	16266	5	"CFS"
1½	.....	....	.....	16267	5	"CFS"
2	.....	....	.....	16268	5	"CFS"

4 and 5-inch Long Conduit Nipples

Pipe Size	4-inch Long: Cat. No.	Carton Quan.	Price Schedule	5-inch Long: Cat. No.	Carton Quan.	Price Schedule
⅛	16280	50	"CFS"	16300	50	"CFS"
¼	16281	50	"CFS"	16301	50	"CFS"
⅜	16282	50	"CFS"	16302	50	"CFS"
½	16283	25	"CFS"	16303	25	"CFS"
¾	16284	25	"CFS"	16304	10	"CFS"
1	16285	10	"CFS"	16305	10	"CFS"
1¼	16286	5	"CFS"	16306	5	"CFS"
1½	16287	5	"CFS"	16307	5	"CFS"
2	16288	5	"CFS"	16308	5	"CFS"
2½	16289	5	"CFS"	16309	5	"CFS"
3	16290	5	"CFS"	16310	5	"CFS"
3½	.....	....	.....	16311	1	"CFS"
4	.....	....	.....	16312	1	"CFS"

APPLETON CONDUIT FITTINGS

RIGID CONDUIT NIPPLES

Galvanized Finish Only



Right-hand thread. Note the deep, clear-cut threads.

6 and 8-inch Long Conduit Nipples

Pipe Size	6-inch Long: Cat. No.	Carton Quan.	Price Schedule	8-inch Long: Cat. No.	Carton Quan.	Price Schedule
⅛	16320	50	"CFS"	16340	50	"CFS"
¼	16321	50	"CFS"	16341	50	"CFS"
⅜	16322	50	"CFS"	16342	50	"CFS"
½	16323	25	"CFS"	16343	25	"CFS"
¾	16324	10	"CFS"	16344	10	"CFS"
1	16325	10	"CFS"	16345	10	"CFS"
1¼	16326	5	"CFS"	16346	5	"CFS"
1½	16327	5	"CFS"	16347	5	"CFS"
2	16328	5	"CFS"	16348	5	"CFS"
2½	16329	5	"CFS"	16349	5	"CFS"
3	16330	5	"CFS"	16350	5	"CFS"
3½	16331	1	"CFS"	16351	1	"CFS"
4	16332	1	"CFS"	16352	1	"CFS"

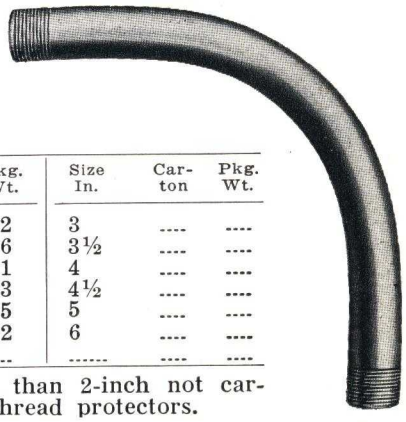
10 and 12-inch Long Conduit Nipples

Pipe Size	10-inch Long: Cat. No.	Carton Quan.	Price Schedule	12-inch Long: Cat. No.	Carton Quan.	Price Schedule
⅛	16360	50	"CFS"	16380	50	"CFS"
¼	16361	50	"CFS"	16381	50	"CFS"
⅜	16362	50	"CFS"	16382	50	"CFS"
½	16363	25	"CFS"	16383	25	"CFS"
¾	16364	25	"CFS"	16384	25	"CFS"
1	16365	10	"CFS"	16385	10	"CFS"
1¼	16366	5	"CFS"	16386	1	"CFS"
1½	16367	1	"CFS"	16387	1	"CFS"
2	16368	1	"CFS"	16388	1	"CFS"
2½	16369	1	"CFS"	16389	1	"CFS"
3	16370	1	"CFS"	16390	1	"CFS"
3½	16371	1	"CFS"	16391	1	"CFS"
4	16372	1	"CFS"	16392	1	"CFS"

CONDUIT PIPE PRODUCTS

CONDUIT 90 DEGREE ELBOWS

Hot Dip Galvanized (Underwriters' Labeled)



Size In.	Carton	Pkg. Wt.	Size In.	Carton	Pkg. Wt.
½	50	42	3	....	....
¾	50	56	3½	....	....
1	20	41	4	....	....
1¼	20	63	4½	....	....
1½	10	45	5	....	....
2	10	72	6	....	....
2½	....	....	.....	....	....

Sizes larger than 2-inch not cartoned, carry thread protectors.

APPLETON LOCKNUTS AND BUSHINGS

Galvanized Finish Only

Appleton "Tiger-grip" Bondnuts have extra features not found in regular locknuts. Note illustrations below which show the sharp, beveled teeth which cut into the outlet or switch box, insuring a metal-to-metal grounding. They lock with a firm and permanent grip—cannot be loosened through vibration.

The use of these Bondnuts gives a lock-tight spring action between threads and the surface of the box. No slipping — shoulders around outside of "Tiger-grip" Bondnuts allow for easy turning with fingers, pliers or wrench—tightening is readily done from all angles. Thoroughly cadmium plated—no rusting.

"TIGER-GRIP" BONDNUTS



Top View



Bottom View

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
BL-38	⅜	100	1000	14
BL-50	½	100	2500	30
BL-75	¾	100	1000	21
BL-100	1	50	500	21
BL-125	1¼	50	200	12
BL-150	1½	50	100	7
BL-200	2	25	50	6

E-Z-ON LOCKNUTS



BL-250	2½	10	50	6
BL-300	3	5	50	16
BL-350	3½	5	25	8
BL-400	4	5	25	10
BL-500	5	2	10	9
BL-600	6	2	10	14

CONDUIT BUSHINGS



BU-38	⅜	100	1000	30
BU-50	½	100	2500	55
BU-75	¾	100	1000	57
BU-100	1	50	500	32
BU-125	1¼	50	200	31
BU-150	1½	50	200	26
BU-200	2	25	100	36
BU-250	2½	10	50	25
BU-300	3	5	50	32
BU-350	3½	5	25	20
BU-400	4	5	25	29
BU-500	5	2	10	16
BU-600	6	2	10	21

CAPPED BUSHINGS



BUC-50	½	100	2500	75
BUC-75	¾	100	1000	39
BUC-100	1	50	500	35
BUC-125	1¼	25	200	24
BUC-150	1½	10	100	18
BUC-200	2	10	50	10
BUC-250	2½	5	30	16
BUC-300	3	5	25	17
BUC-350	3½	5	25	21
BUC-400	4	5	25	28

Schedule "LB" Discounts

APPLETON INSULATING END BUSHINGS

For Use with Rigid Conduit (Heavy-Wall)

TYPES EB AND EBS INSULATING END BUSHINGS



Type EB—Deep Type



Type EBS—Shallow Type

Appleton Insulating End Bushings are designed for use where space is limited and where a neat appearing and substantial insulated outlet is required on the end of conduit.

These bushings are made of a special phenol formaldehyde linen fabric commonly called bakelite laminated, a product especially noted for its high insulative property and mechanical strength.

After machining, these bushings are given special treatment rendering them impervious to moisture absorption and affording excellent electrical properties.

Tensile Strength in lbs. per sq. in..... 8000
Dielectric Strength, volts per Mil..... 700
Flexural Strength in lbs. per sq. in.....16000

After immersion in water for 24 hours at 25 degrees C. moisture absorption is 1.3 to 2 per cent.

Appleton End Bushings have successfully stood up under a heat test of 200 degrees F., without affecting the shape of the bushings.

Type EB—Deep Type

Threaded for ½ to 6-Inch Conduit

Cat. No.	Size Inches	Dimens., In. Depth	Dimens., In. Diam.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
29101	½	¾	1⅛	50	2	"EB"
29102	¾	¾	1 5/16	50	2½	"EB"
29103	1	⅞	1⅝	50	5½	"EB"
29104	1¼	⅞	2	10	7½	"EB"
29105	1½	⅞	2¼	10	7½	"EB"
29106	2	1 1/16	2¾	10	10	"EB"
29107	2½	1¼	3¼	5	20	"EB"
29108	3	1¼	3⅞	5	20	"EB"
29109	3½	1¼	4⅜	5	25	"EB"
29110	4	1¼	5	5	25	"EB"
29112	5	1¼	6	1	50	"EB"
29113	6	1¼	7	1	60	"EB"

Type EBS—Shallow Type

Threaded for ½ to 6-Inch Conduit

29121	½	½	1⅛	50	1½	"EB"
29122	¾	½	1 5/16	50	1½	"EB"
29123	1	9/16	1⅝	50	2½	"EB"
29124	1¼	9/16	2	10	5	"EB"
29125	1½	9/16	2¼	10	5	"EB"
29126	2	9/16	2¾	10	7½	"EB"
29127	2½	¾	3¼	5	15	"EB"
29128	3	¾	3⅞	5	15	"EB"
29129	3½	¾	4⅜	5	20	"EB"
29130	4	¾	5	5	25	"EB"
29132	5	¾	6	1	35	"EB"
29133	6	¾	7	1	40	"EB"

APPLETON INSULATING END BUSHINGS

For Use With Rigid Conduit (Heavy-Wall)

TYPE EBC—DEEP TYPE—WITH SET SCREW

NOT THREADED



For ½ to 6-Inch Rigid Conduit (Heavy-Wall)

Cat. No.	Size In.	Dimens., In. Depth	Dimens., In. Diam.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
29201	½	¾	1⅛	50	2	"EB"
29202	¾	¾	1 5/16	50	2½	"EB"
29203	1	⅞	1⅝	50	5½	"EB"
29204	1¼	⅞	2	10	7½	"EB"
29205	1½	⅞	2¼	10	7½	"EB"
29206	2	15/16	2¾	10	10	"EB"
29207	2½	1¼	3¼	5	20	"EB"
29208	3	1¼	3⅞	5	20	"EB"
29209	3½	1¼	4⅜	5	25	"EB"
29210	4	1¼	5	5	25	"EB"
29212	5	1¼	6	1	50	"EB"
29213	6	1¼	7	1	60	"EB"

For ½ to 2-Inch Electrical Metallic Tubing

Cat. No.	Size In.	Dimens., In. Depth	Dimens., In. Diam.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
29T201	½	¾	63/64	50	2	"EB"
29T202	¾	¾	1.218	50	2½	"EB"
29T203	1	⅞	1.460	50	5½	"EB"
29T204	1¼	⅞	1.803	10	7½	"EB"
29T205	1½	⅞	2.020	10	7½	"EB"
29T206	2	15/16	2.480	10	10	"EB"

COVERS FOR INSULATING END BUSHINGS



Blank Cover



2-Hole Cover

BLANK COVERS Cat. No.	Size In.	Std. Pkg.	Price Schedule	TWO-HOLE COVERS Cat. No.	Size In.	Diam. Holes	Std. Pkg.	Price Schedule
29140	½	50	"EB"	**29180**	½	17/64	50	"EB"
29141	¾	50	"EB"	**29181**	¾	11/32	50	"EB"
29142	1	50	"EB"	**29182**	1	7/16	50	"EB"
29143	1¼	10	"EB"	**29183**	1¼	9/16	10	"EB"
29144	1½	10	"EB"	**29184**	1½	11/16	10	"EB"
29145	2	10	"EB"	**29185**	2	⅞	10	"EB"
29146	2½	5	"EB"	**29186**	2½	1⅛	5	"EB"
29147	3	5	"EB"	**29187**	3	1⅜	5	"EB"
29148	3½	5	"EB"	**29188**	3½	1⅝	5	"EB"
29149	4	5	"EB"	**29189**	4	1⅞	5	"EB"
29151	5	1	"EB"	**29191**	5	2¼	1	"EB"
29152	6	1	"EB"	**29192**	6	2½	1	"EB"

APPLETON INSULATING END BUSHINGS

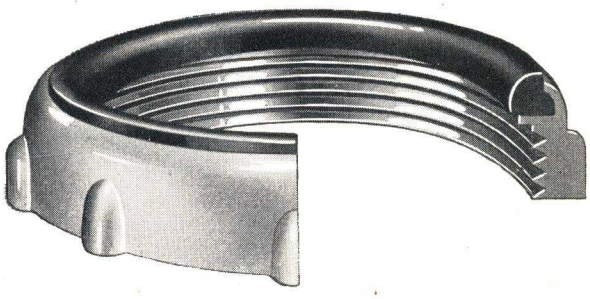
For Use With Rigid Conduit (Heavy-Wall)

THREE-HOLE COVERS FOR INSULATING END BUSHINGS



Cat. No.	Size Inches	Holes	Diam. Holes	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
29160	½	Three	¼	50	.....	"EB"
29161	¾	Three	17/64	50	.....	"EB"
29162	1	Three	11/32	50	.....	"EB"
29163	1¼	Three	15/32	10	.....	"EB"
29164	1½	Three	9/16	10	.....	"EB"
29165	2	Three	¾	10	.....	"EB"
29166	2½	Three	15/16	5	.....	"EB"
29167	3	Three	1⅛	5	.....	"EB"
29168	3½	Three	1⅜	5	.....	"EB"
29169	4	Three	1½	5	.....	"EB"
29171	5	Three	1⅞	1	.....	"EB"
29172	6	Three	2¼	1	.....	"EB"

"TBF" INSULATED BUSHINGS



The "TBF" hard fibre insulated bushing is the most practical conduit bushing yet developed for the electrical trade. As shown in the illustration the appearance of this bushing is very similar to the ordinary malleable bushing except that there is inserted in the outer rim a ring of hard fibre, locked in, in such a manner that it is impossible to break or remove it under any circumstances.

Material, malleable iron; cadmium galvanized finish.

Cat. No.	Conduit Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
I.B. 50	½	100	5	**$27.50**
I.B. 75	¾	100	6½	**31.00**
I.B. 100	1	50	6	**42.00**
I.B. 125	1¼	30	7½	**60.00**
I.B. 150	1½	30	8½	**84.00**
I.B. 200	2	20	7	**108.00**
I.B. 250	2½	10	5½	**150.00**
I.B. 300	3	10	7¾	**180.00**
I.B. 350	3½	10	9	**240.00**
I.B. 400	4	10	11¾	**330.00**
I.B. 450	4½	5	7¼	**420.00**
I.B. 500	5	2	4½	**600.00**
I.B. 600	6	2	5½	**900.00**

T & B INSULATED METALLIC BUSHINGS



Insulated Metallic Bushings line the ends of conduits and prevent cable abrasion and accidental grounds.

Insulator is moisture proof paper base phenolic thoroughly impregnated with tough insulated varnish. It is securely locked in the metal base.

Bushings are especially designed in tough aluminum alloy with high ribs for easy tightening. Large bottom shoulder completely covers knockout. Clean, machine cut threads.

Cat. No.	Dimensions, Inches: Size	Out. Diam.	Bush. Diam.	Over. Hght.	Std. Pkg.	Unit Quan.	Price Per 100
575	½	1 7/32	5/8	5/8	100	50	$40.00
576	¾	1 15/32	13/16	5/8	50	25	50.00
577	1	1 3/4	1	3/4	20	5	75.00
578	1¼	2 3/32	1 11/32	3/4	20	5	100.00
579	1½	2 11/32	1 9/16	27/32	20	5	125.00
580	2	2 25/32	2	27/32	10	5	200.00
581	2½	3 3/8	2 7/16	1 1/32	10	5	250.00
582	3	3 15/16	3	1 1/32	5	1	300.00
583	3½	4 7/16	3½	1 3/32	5	1	400.00
584	4	4 15/16	4	1 3/32	5	1	500.00
586	5	6 1/16	5	1⅛	1	..	800.00
587	6	7 1/16	6	1⅛	1	..	1000.00

T & B INSULINER SLEEVES

Approved by Underwriters' Laboratories

Can be used in any raceway outlet. Overlapping ends automatically adjusts "Insuliner" to normal variations to conduit diameters — either standard heavywall, or thinwall conduit (E.M.T.).

The smoothly rounded mouth covers the bushing and long skirt shields end of conduit.



Cat. No.	Cond. Size, In.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
422	½	25	50	3	$15.00
423	¾	25	50	6	17.00
424	1	25	50	7	20.00
425	1¼	20	40	13	25.00
426	1½	20	40	14	27.00
427	2	15	30	20	30.00
428	2½	15	30	35	50.00
429	3	5	25	50	80.00
430	3½	5	25	75	100.00
431	4	5	20	90	200.00
433	5	2	10	140	400.00
434	6	1	5	200	500.00

UNION INSULATED CONDUIT END BUSHINGS

Listed by Underwriters' Laboratories, Inc.



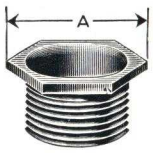
Conduit End Bushings are molded of impact resistant bakelite. Sizes ½ inch through 1 inch from paper impregnated material; sizes 1¼ inches through 6 inches from canvas impregnated bakelite.

Provided with ribbed grip for easy tightening by hand or tool. Threads are smooth, concentric and free of burrs.

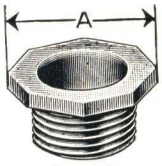
UNION INSULATED CONDUIT END BUSHINGS

Cat. No.	Pipe Size Inches	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
CE-12	½	100	500	1	$2.90
CE-34	¾	100	500	1½	3.60
CE-1	1	50	250	2½	5.75
CE-114	1¼	25	100	4	16.25
CE-112	1½	25	100	6	18.75
CE-2	2	25	50	8	22.50
CE-212	2½	10	20	13	36.50
CE-3	3	5	10	16	40.00
CE-312	3½	5	5	20	50.00
CE-4	4	5	5	23	60.00
CE-412	4½	2	2	27	110.00
CE-5	5	2	2	32	130.00
CE-6	6	2	2	43	250.00

APPLETON CONDUIT NIPPLES



Regular



Special

Regular Conduit Nipples

Cat. No.	Size Inches	Dimens. "A"	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
7200	⅜	13/16	50	100	3	"CF"
7201	½	1	50	100	4	"CF"
7202	¾	1 5/16	50	100	8	"CF"
7203	1	1 11/16	25	50	7½	"CF"
7115	1¼	2⅛	10	25	6	"CF"
7116	1½	2 5/16	10	25	7½	"CF"
7117	2	2⅞	5	10	5	"CF"
7118	2½	3½	5	10	6½	"CF"
7119	3	4⅜	2	5	5	"CF"
7120	3½	4⅝	2	5	6½	"CF"
7121	4	5 3/16	2	5	7½	"CF"
7123	5	6 5/16	2	5	10½	"CF"

Special Conduit Nipples

7125	½	1¼	50	100	5	"CF"
7126	¾	1 9/16	50	100	9	"CF"

RUNNING THREAD
(ALL THREAD)



3-Foot Lengths—Type "C"

Pipe Hot Dip Galv.—Threads Electro Galv.

Size Pipe	Approx. Wt. Lbs. 100 Ft.	Price Per Foot	Size Pipe	Approx. Wt. Lbs. 100 Ft.	Price Per Foot
⅛"	15	$0.22	1½"	200	$1.00
¼"	25	.23	2 "	260	1.40
⅜"	35	.25	2½"	430	2.20
½"	61	.30	3 "	550	3.00
¾"	76	.45	3½"	640	3.60
1 "	110	.65	4 "	830	4.20
1¼"	160	.90			

APPLETON CONDUIT FITTINGS

Cadmium Finish

CONDUIT MALE ENLARGERS



These enlargers, when screwed into the hub of any conduit fitting having ½, ¾ or 1-inch female hubs respectively, will enlarge the hub to the next size, namely, ¾, 1 and 1¼ inches according to the number selected.

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
9407	¾ F. x ½ M.	50	500	70	"CF"
9408	1 F. x ¾ M.	50	500	80	"CF"
9409	1¼ F. x 1 M.	20	200	40	"CF"

REDUCERS



Used to reduce Conduit Fittings from larger to smaller sizes as shown in listing.

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8200	½ to ⅜	50	100	4	"CF"
8201	¾ to ½	50	100	5	"CF"
8202	1 to ½	25	50	12	"CF"
8203	1¼ to ½	25	50	33	"CF"
8204	1½ to ½	25	50	40	"CF"
8205	2 to ½	10	25	65	"CF"
8206	2½ to ½	10	25	87	"CF"
8207	3 to ½	10	25	115	"CF"
8208	3½ to ½	5	10	175	"CF"
8209	4 to ½	5	10	250	"CF"
8213	1 to ¾	25	50	9	"CF"
8214	1¼ to ¾	25	50	24	"CF"
8215	1½ to ¾	25	50	36	"CF"
8216	2 to ¾	10	25	70	"CF"
8217	2½ to ¾	10	25	84	"CF"
8218	3 to ¾	10	25	120	"CF"
8219	3½ to ¾	5	10	170	"CF"
8220	4 to ¾	5	10	250	"CF"
8224	1¼ to 1	25	50	14	"CF"
8225	1½ to 1	25	50	29	"CF"
8226	2 to 1	10	25	52	"CF"
8227	2½ to 1	10	25	102	"CF"
8228	3 to 1	10	25	115	"CF"
8229	3½ to 1	5	10	170	"CF"
8230	4 to 1	5	10	220	"CF"
8234	1½ to 1¼	25	50	15	"CF"
8235	2 to 1¼	10	25	50	"CF"
8236	2½ to 1¼	10	25	90	"CF"
8237	3 to 1¼	10	25	145	"CF"
8238	3½ to 1¼	5	10	210	"CF"
8239	4 to 1¼	5	10	230	"CF"
8243	2 to 1½	10	25	38	"CF"
8244	2½ to 1½	10	25	87	"CF"
8245	3 to 1½	10	25	125	"CF"
8246	3½ to 1½	5	10	215	"CF"
8247	4 to 1½	5	10	255	"CF"
8251	2½ to 2	10	25	53	"CF"
8252	3 to 2	10	25	130	"CF"
8253	3½ to 2	5	10	280	"CF"
8254	4 to 2	5	10	320	"CF"
8258	3 to 2½	10	25	100	"CF"
8259	3½ to 2½	5	10	200	"CF"
8260	4 to 2½	5	10	263	"CF"
8264	3½ to 3	5	10	93	"CF"
8265	4 to 3	5	10	250	"CF"
8269	4 to 3½	5	10	200	"CF"

T & B CONDUIT FITTINGS

"TITE-BITE" COMBINATION COUPLINGS

Approved by Underwriters' Laboratories



The "Tite-Bite" grip holds the flexible conduit securely and is vibration proof. The one-piece design cannot pull apart.

For Connecting Flexible Conduit and Standard Threaded Rigid Conduit

Cat. No.	Size Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
440	½	10	50	18	$15.00
441	¾	10	50	25	20.00
442	1	5	25	35	35.00
443	1¼	5	25	40	50.00
444	1½	5	25	76	75.00
445	2	5	10	92	100.00
446	2½	5	10	180	150.00
447	3	2	5	240	200.00

For Connecting Flexible Conduit and Standard Threadless Rigid Conduit

450	½	10	50	20	30.00
451	¾	10	50	27	50.00
452	1	5	25	40	75.00
453	1¼	5	25	45	100.00
454	1½	5	25	85	125.00
455	2	5	10	100	175.00
456	2½	5	10	200	250.00
457	3	2	5	275	375.00

For Connecting Flexible Conduit and E.M.T. (Thinwall Conduit)

Cat. No.	Size, Inches Flex. Cond.	Size, Inches E.M.T.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
469	⅜	½	10	50	19	$30.00
470	½	½	10	50	20	30.00
471	¾	¾	10	50	27	50.00
472	1	1	5	25	40	75.00
473	1¼	1¼	5	25	45	100.00
474	1½	1½	5	25	85	125.00
475	2	2	5	10	100	175.00

PANEL CONNECTOR EXTENSIONS

Approved by Underwriters' Laboratories

Can be used with any Connector or other fitting having male thread.

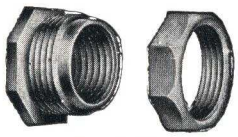
Makes any Connector a "Panel" Connector.



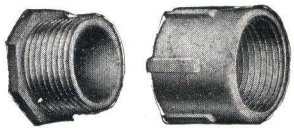
Cat. No.	Type Conduit Male	Type Conduit Female	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
1440	½	½	50	12	$15.00
1441	¾	¾	50	16	20.00
1442	1	1	25	24	35.00
1443	1¼	1¼	25	32	50.00
1444	1½	1½	25	44	75.00
1445	2	2	10	64	100.00
1446	2½	2½	10	84	150.00

T & B CONDUIT COUPLINGS

Approved by Underwriters' Laboratories



No. 1410



No. 1420

These couplings are so designed that when assembled with conduit bodies, they constitute a complete body.

Cat. No.	Description	Std. Pkg.	Wt. Lbs., Std. Pkg.	Price Per 100
1410	For ½-inch Conduit	50	10	$13.50
1420	For ¾-inch Conduit	50	16	20.00

"JAKE" CONDUIT FITTINGS

"JAKE" 90 DEGREE ADAPTERS

General Purpose Fitting



May be used for converting a straight box connector into a 90-degree box connector or may be used as a 90-degree box connector for rigid conduit.

Cat. No.	Size, Inches Conduit	Size, Inches Knockout	Carton	Std. Pkg.	Wt. Lbs. Per 100
N-050-R	½	½	25	100	28
N-075-R	¾	¾	20	60	44
N-100-R	1	1	10	30	84
N-125-R	1¼	1¼	5	10	88
N-150-R	1½	1½	5	10	132

"JAKE" 45-DEGREE ADAPTERS

General Purpose Fitting



For converting a straight box connector into a 45-degree box connector, or may be used as a 45-degree box connector for rigid conduit.

Cat. No.	Size, Inches Conduit	Size, Inches Knockout	Carton	Std. Pkg.	Wt. Lbs. Per 100
F-050-R	½	½	15	45	44
F-075-R	¾	¾	10	30	77
F-100-R	1	1	5	20	121

"JAKE" REDUCING BUSHINGS



Designed especially for conduit work. Bevel edges protect conductors. Consumes minimum space in effecting reduction and has ample threads for all conduit sizes.

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Per 100
75-B- 50	¾x ½	50	100	7
100-B- 50	1 x ½	25	50	16
100-B- 75	1 x ¾	25	50	11
125-B- 50	1¼x ½	25	25	30
125-B- 75	1¼x ¾	25	25	28
125-B-100	1¼x1	25	25	19
150-B- 50	1½x ½	25	25	53
150-B- 75	1½x ¾	25	25	49
150-B-100	1½x1	25	25	37
150-B-125	1½x1¼	25	25	22
200-B- 50	2 x ½	25	25	95
200-B- 75	2 x ¾	25	25	88
200-B-100	2 x1	25	25	76
200-B-125	2 x1¼	25	25	61
200-B-150	2 x1½	25	25	48
250-B- 50	2½x ½	10	10	166
250-B- 75	2½x ¾	10	10	161
250-B-100	2½x1	10	10	155
250-B-125	2½x1¼	10	10	130
250-B-150	2½x1½	10	10	113
250-B-200	2½x2	10	10	69
300-B-200	3 x2	10	10	176
300-B-250	3 x2½	10	10	119
350-B-250	3½x2½	5	5	234
350-B-300	3½x3	5	5	131
400-B-300	4 x3	2	2	251

APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use with Rigid Conduit (Heavy-Wall)

TYPES EL AND ELB ELBOWS



EL 45-Degree Female



EL 90-Degree Female

Type EL 45-Degree Elbows—Female

Cat. No.	Size In.	Carton	Std. Pkg.	Price Schedule	Cat. No.	Size In.	Carton	Std. Pkg.	Price Schedule
8285	½	10	200	"CFS"	8295	2	1	5	"CFS"
8286	¾	10	100	"CFS"	8296	2½	1	5	"CFS"
8287	1	5	50	"CFS"	8297	3	1	5	"CFS"
8288	1¼	5	25	"CFS"	8298	3½	1	5	"CFS"
8289	1½	5	10	"CFS"	8299	4	1	5	"CFS"

Type EL 90-Degree Elbows—Female

8270	½	10	200	"CFS"	8271	¾	10	100	"CFS"

TYPE EL 90-DEGREE ELBOWS



No-Thread

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
82N70	½	5	100	37	"CFS"
82N71	¾	5	50	36	"CFS"

90-DEGREE BUSHED ELBOWS—SHORT

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
7495	½	25	100	16	"CF"
7496	¾	25	100	26	"CF"
7497	1	10	50	18	"CF"



90-DEGREE BUSHED ELBOWS—LONG



Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
7490	½	25	100	30	"CF"
7491	¾	25	100	50	"CF"
7492	1	10	25	20	"CF"
7493	1¼	10	20	26	"CF"
7494	1½	5	10	24	"CF"
7494-A	2	5	10	38	"CF"

90-DEGREE ANGLE CONNECTOR EXTENSION

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
27495	½	25	500	80	"CF"
27496	¾	25	300	78	"CF"
27497	1	20	200	72	"CF"



APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use with Rigid Conduit (Heavy-Wall)

90 DEGREE KNOCKOUT BOX CONNECTORS



THREADED TYPE

Cat. No.	Size A	Size B	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
7360	½	½	5	25	8	"CFS"
7361	¾	½	5	10	5	"CFS"
7362	¾	¾	5	10	6	"CFS"
7363	1	¾	5	10	6	"CFS"

COMBINATION THREADED AND NO-THREAD TYPE

Cat. No.	Threaded	No-thread	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
7370	½	½	25	12	"CFS"
7371	½	¾	10	5	"CFS"
7372	¾	½	10	5	"CFS"
7373	¾	¾	10	7	"CFS"
7374	¾	1	10	7	"CFS"
7375	1	¾	10	7	"CFS"



Carton quantity, 5.



NO-THREAD TYPE

Cat. No.	Size A	Size B	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
73N61	¾	½	5	10	4	"CFS"
73N63	1	¾	5	10	6	"CFS"

THREADED TYPE

Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
7390	½	25	50	8½	"CFS"
7391	¾	25	50	13	"CFS"





NO-THREAD TYPE

Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
73N90	½	25	50	10	"CFS"
73N91	¾	25	50	16	"CFS"

TYPE "PEL" PULLING ELBOWS

For Use with Rigid Conduit (Heavy-Wall)

Designed for use in practically any corner, and the cover, which is instantly accessible, makes it possible to pull wires without difficulty. All sizes have exceedingly large wiring space.

Type "PEL" Pulling Elbow—Threaded

Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
37450	½	10	100	52	"CFS"
37451	¾	5	50	40	"CFS"
37452	1	5	20	27	"CFS"



APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use with Rigid Conduit (Heavy-Wall)

TYPE ET ELBOWS FOR SHORT RADIUS BEND

Designed for use in making junctions in the conduit system at concealed or inaccessible points.

Type ET Fittings without lugs are especially suitable for use in connections in service conduit with outdoor meters or with lighting fixtures.

TYPE ET THREADED



With Lugs



Without Lugs

With Lugs

Cat. No.	Size	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
8630	¾– ½– ½†	5	100	.....	"CFS"
8631	¾– ¾– ¾	5	100	.....	"CFS"
8632	1 – ¾– ¾†	5	50	33	"CFS"
8633	1 –1 –1	5	50	.....	"CFS"
8634	1¼–1 –1 †	5	25	.....	"CFS"

Without Lugs

Cat. No.	Size	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
8690	¾– ½– ½†	5	100	84	"CFS"
8691	¾– ¾– ¾	5	100	104	"CFS"
8692	1 – ¾– ¾†	5	50	65	"CFS"
8693	1 –1 –1	5	50	.....	"CFS"
8694	1¼–1 –1 †	5	25	46	"CFS"

‡NO-THREAD—WITHOUT LUGS



Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
86N90	¾–½–½†	5	100	95	"CFS"
86N91	¾–¾–¾	5	100	....	"CFS"
86N92	1–¾–¾	5	50	72	"CFS"



METER CONNECTOR

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
18860	1¼	5	25	13	"CFS"

REDUCING CONNECTORS

For Knockout or Panel Box Connections No-Thread Type



Cat. No.	Size A	Size B	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
73N80	½	¾	10	50	10	"CFS"
73N81	½	1	10	50	16	"CFS"
73N82	¾	1	10	50	17	"CFS"
73N83	½	1¼	5	25	12	"CFS"
73N84	¾	1¼	5	25	13	"CFS"
73N85	1	1¼	5	25	....	"CFS"

†Size of larger Hub is given first, and is shown at bottom in illustration. ‡Main Hubs are No-Thread and Large Branch Hub is Threaded.

APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use With Rigid Conduit (Heavy-Wall)

ECONOMICAL CONDUIT COUPLINGS



Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
18800	⅜	50	100	13	"CF"
18801	½	50	100	24	"CF"
18802	¾	5	50	34	"CF"
18803	1	5	25	52	"CF"
18804	1¼	5	25	92	"CF"
18805	1½	5	25	116	"CF"
18806	2	5	20	195	"CF"
18807	2½	5	10	380	"CF"
18808	3	5	10	420	"CF"
18809	3½	2	5	520	"CF"
18810	4	2	5	620	"CF"
18812	5	1	2	900	"CF"

NO-THREAD COUPLINGS



½ to 2-Inch



2½ to 4-Inch

Cat. No.	Size In.	Carton	Std. Pkg.	Price Schedule
82N80	½	50	100	"CF"
82N81	¾	25	50	"CF"
82N82	1	5	25	"CF"
82N83	1¼	5	25	"CF"
82N84	1½	2	10	"CF"

Cat. No.	Size In.	Carton	Std. Pkg.	Price Schedule
82N96	2	1	5	"CF"
82N90	2½	1	5	"CF"
82N91	3	1	5	"CF"
82N92	3½	1	5	"CF"
82N93	4	1	5	"CF"

TYPE L NO-THREAD CONNECTORS



½ to 2-Inch



2½ to 4-Inch

Cat. No,	Size In.	Carton	Std. Pkg.	Price Schedule
80N95	½	25	100	"CF"
80N96	¾	25	50	"CF"
80N97	1	5	25	"CF"
80N98	1¼	5	25	"CF"
80N99	1½	2	10	"CF"

Cat. No,	Size In.	Carton	Std. Pkg.	Price Schedule
80N90	2	1	5	"CF"
80N91	2½	1	5	"CF"
80N92	3	1	5	"CF"
80N93	3½	1	5	"CF"
80N94	4	1	5	"CF"

TYPE CN NO-THREAD CONNECTORS



Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
80N20	½	25	100	17	"CF"
80N21	¾	25	50	15	"CF"
80N22	1	5	25	13	"CF"
80N23	1¼	5	25	19	"CF"

APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use with Rigid Conduit (Heavy-Wall)



COMBINATION THREADED COUPLINGS

For connecting Flexible Steel Conduit or Armored Bushed Cable to Rigid Conduit.

Cat. No.	Size Inches	Designed to Hold	Max. Dia. Hole	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
18839	½	⅜" BX†‡	----	10	50	8	"CF"
18840	½	½" Flex.	15/16	10	50	9	"CF"
18841	¾	¾" Flex.	1⅛	10	50	13	"CF"
18842	1	1" Flex.	1 13/32	5	25	9	"CF"
18843	1¼	1¼" Flex.	1 11/16	5	25	10	"CF"
18844	1½	1½" Flex.	2	5	25	19	"CF"
18845	2	2" Flex.	2 15/32	5	10	9	"CF"

COMBINATION NO-THREAD COUPLINGS



For connecting Flexible Steel Conduit or Armored Bushed Cable to Rigid Conduit.

Cat. No.	Size Inches	Designed to Hold	Max. Dia. Hole	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
18849	½	⅜" BX†‡	----	10	50	10	"CF"
18850	½	½" Flex.	15/16	10	50	11	"CF"
18851	¾	¾" Flex.	1⅛	10	50	15	"CF"

†Armored Cable 1947 Code: 14-2, 14-3, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2.

‡Armored Cable 1940 Code: 14-2, 14-3, 14-4, 12-2, 12-3, 12-4 and FLEXIBLE STEEL CONDUIT ⅜ inch.

END FITTINGS—THREADED AND NO-THREAD TYPES



No-Thread Type (Sectional View)

Appleton End Fittings both in Threaded and No-Thread types are designed to make a neat installation.

The inside diameter of the bushing is the same as the inside dimension of the pipe as shown in sectional view. The bushing is made of bakelite and is held in place by two screws.

The No-Thread type end fitting is particularly desirable as it can be installed on the end of pipe in inconvenient places without threading of the conduit.



Threaded ½ to 4-inch



No-Thread ½ to 2-inch



No-Thread 2½ to 4-inch

Size In.	Carton	Threaded Cat. No.	Threaded Std. Pkg.	Threaded Pkg. Wt.	No-Thread Cat. No.	No-Thread Std. Pkg.	No-Thread Pkg. Wt.	Price Schedule
½	20	7190	100	23	71N90	100	23	"CF"
¾	15	7191	75	24	71N91	50	27	"CF"
1	10	7192	50	23	71N92	25	27	"CF"
1¼	5	7193	40	25	71N93	10	31	"CF"
1½	5	7194	20	17	71N94	10	22	"CF"
2	1	7195	15	20	71N95	5	26	"CF"
2½	1	7196	10	22	71N96	5	32	"CF"
3	1	7197	5	15	71N97	5	18	"CF"
3½	1	7198	5	21	71N98	5	26	"CF"
4	1	7199	5	25	71N99	5	38	"CF"

APPLETON ENTRANCE FITTINGS

Cadmium Finish

For Rigid Conduit (Heavy-Wall)

TYPE FEBS ENTRANCE FITTINGS THREADED



½-inch size with Combination 2, 3 and 4-wire Bakelite cover; 2 holes plugged. ¾- to 1¼-inch sizes, with Combination 2, 3, 4 and 5-wire Bakelite covers; 2 holes plugged. 1¼-inch size (F125S) with Combination 4, 5, 6 and 7-wire Composition cover; 3 holes plugged. 1½- and 2-inch sizes, with Combination 2, 3, 4, 5 and 6-wire Bakelite covers, 4 holes plugged.

Cat. No.	Size In.	Holes in Insulator	Size of Holes	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
F- 50	½	4	4–5/16	10	100	55	"EF"
F- 75	¾	5	3–13/32, 2–⅜	10	100	63	"EF"
F-100	1	5	3–½, 2–13/32	5	25	105	"EF"
F-125	1¼	5	3–⅝, 2–17/32	5	10	145	"EF"
F-125S	1¼	7	5–11/16, 2–9/16	5	10	145	"EF"
F-150	1½	6	3–25/32, 2–9/16 1–⅜	1	5	260	"EF"
F-200	2	6	3–1, 2–¾ 1–17/32	1	5	520	"EF"

TYPE FEBS ENTRANCE FITTING NO-THREAD



½-inch size with Combination 2, 3 and 4-wire Bakelite cover; 2 holes plugged. ¾- to 1¼-inch sizes, with Combination 2, 3, 4 and 5-wire Bakelite covers; 2 holes plugged. 1¼-inch size (FN125S) with Combination 4, 5, 6 and 7-wire Composition cover; 3 holes plugged. 1½- and 2-inch sizes, with Combination 2, 3, 4, 5 and 6-wire Bakelite covers, 4 holes plugged.

Cat. No.	Size In.	Holes in Insulator	Size of Holes	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
FN- 50	½	4	4–5/16	10	50	55	"EF"
FN- 75	¾	5	3–13/32, 2–⅜	10	50	63	"EF"
FN-100	1	5	3–½, 2–13/32	5	20	105	"EF"
FN-125	1¼	5	3–⅝, 2–17/32	5	10	145	"EF"
FN-125S	1¼	7	5–11/16, 2–9/16	5	10	145	"EF"
FN-150	1½	6	3–25/32, 2–9/16 1–⅜	1	5	310	"EF"
FN-200	2	6	3–1, 2–¾ 1–17/32	1	5	620	"EF"

TYPE FEBR REVERSIBLE FITTINGS THREADED



With Combination 2, 3, 4, 5 and 6-wire Composition covers. Reversible type for outside installation.

Cat. No.	Size In.	K.O. in Covers	Size of K.O.	Carton	Std. Pkg.	Wt. Lbs. Each	Price Schedule
1932	2½	6	3–1¾, 3–1⅛	1	1	11½	"EE"
1933	3	6	3–1¾, 3–1⅛	1	1	12½	"EF"
1934	3½	6	3–1¾, 3–1⅛	1	1	13¼	"EF"
1935	4	6	3–1¾, 3–1⅛	1	1	13½	"EF"

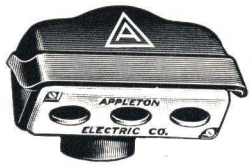
APPLETON ENTRANCE FITTINGS

Cadmium Finish

For Rigid Conduit (Heavy-Wall)

TYPE FEB FITTINGS—THREADED

With Three-Wire Porcelain Covers



Can be furnished with four, five, six, seven or eight-wire covers when specified on orders. For example, type FEB for 2½-inch conduit with 4-wire cover.

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Each	Price Schedule
1973	2½	1	1	22	"EF"
1974	3	1	1	22	"EF"
1975	3½	1	1	57	"EF"
1976	4	1	1	57	"EF"
1978	5	1	1	62	"EF"
1979	6	1	1	78	"EF"

TYPE FB FITTINGS—THREADED

With Combination 2, 3 and 4-Wire Composition Covers



Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
1713	½	10	100	48	"EF"
1714	¾	10	100	56	"EF"
1716	1	5	50	45	"EF"

TYPE FC FITTINGS—THREADED

With Combination 2, 3 and 4-Wire Composition Covers

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
1723	½	20	200	17	"EF"
1733	¾	20	200	17	"EF"
1743	1	10	100	44	"EF"



TYPE FCE CABLE END FITTING



With 3-Hole Composition Cover

For use with Armored Cable or Non-metallic Sheathed Cable.

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
1755	⅜	25	200	14	"EF"

FCC CONDUIT END FITTING—THREADED

With 3-Hole Composition Cover



Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
1756	½	25	200	10	"EF"

APPLETON ENTRANCE FITTINGS

Cadmium Finish

For Rigid Conduit (Heavy-Wall)

TYPE AY ANGLE FITTINGS

With Two Threaded Female Hubs



Cat. No.	Size In.	Carton	Std. Pkg.	Wt.Lbs. Per 100	Schedule
1950	½	10	50	84	"EF"
1951	¾	5	50	100	"EF"
1952	1	5	25	108	"EF"
1953	1¼	5	10	135	"EF"
1954	1½	5	5	340	"EF"

TYPE AYM FITTINGS

With Male and Female Threaded Hubs

Designed especially for use with poles used for floodlights and for signs used around gasoline filling stations, etc.



Cat. No.	Size In.	Carton	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
11950	½x ½	10	50	84	"EF"
11951	¾x ¾	5	50	100	"EF"
11952	1 x1	5	25	108	"EF"

TYPE SLAY FITTINGS—THREADED†

With Gasket



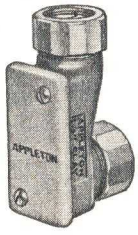
For service entrance and outside conduit installations. May be installed close to buildings.

Cat. No.	Size In.	Carton	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
31790	½	10	100	66	"EF"
31791	¾	10	100	84	"EF"
31792	1	5	50	136	"EF"
31793	1¼	5	25	260	"EF"

TYPE SLAY FITTINGS—NO-THREAD†

With Gasket

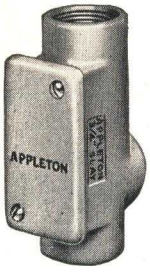
For service entrance and outside conduit installations. May be installed close to buildings.



Cat. No.	Size In.	Carton	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
317N90	½	10	100	68	"EF"
317N91	¾	10	50	100	"EF"
317N92	1	5	25	160	"EF"
317N93	1¼	5	10	250	"EF"

TYPE SLAY FITTINGS—THREADED†

For Driven Grounds
With Gasket



Designed especially for services that are grounded outside of building. Hub in bottom of fitting is for ¾-inch conduit, which should extend far enough to protect ground wire.

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
41791	¾x ¾x¾	10	50	105	"EF"
41792	1 x1 x¾	10	50	151	"EF"
41793	1¼x1¼x¾	5	25	210	"EF"

†Will be furnished with Sealing Screws at no additional charge if specified on order.

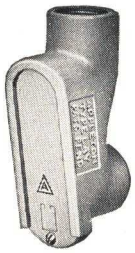
APPLETON ENTRANCE FITTINGS

Cadmium Finish

For Rigid Conduit (Heavy-Wall)

TYPE LAY FITTINGS—THREADED

Weatherproof, gasket not required. Cover held in place by flange and securely fastened by means of screw.



For service entrance and outside conduit installation. May be installed close to buildings.

Cat. No.	Size In.	Carton	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
1790	½	10	100	90	"EF"
1791	¾	10	100	94	"EF"
1792	1	5	50	156	"EF"
1793	1¼	5	50	330	"EF"
1794	1½	5	50	400	"EF"
1795	2	5	25	500	"EF"

TYPE LAY FITTINGS—NO-THREAD

For service entrance and outside conduit installations. May be installed close to buildings.



Cat. No.	Size In.	Carton	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
17N90	½	10	50	100	"EF"
17N91	¾	10	50	124	"EF"
17N92	1	5	25	170	"EF"
17N93	1¼	5	10	380	"EF"
17N94	1½	5	10	500	"EF"
17N95	2	5	5	700	"EF"

TYPE LAY FITTINGS—THREADED

For Driven Grounds



Made especially for services that are grounded outside of building. The hub in bottom of fitting is for ½-inch conduit which should extend far enough to protect ground wire.

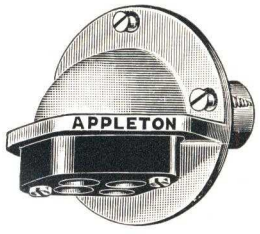
Cat. No.	Size Inches	Carton	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
11791	¾x ¾x½	10	50	100	"EF"
11792	1 x1 x½	10	50	151	"EF"
11793	1¼x1¼x½	5	20	210	"EF"

TYPE FEL SPECIAL ENTRANCE ELL



Cat. No.	Size In.	Carton	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
37490	½	25	100	28	"EF"
37491	¾	25	100	43	"EF"
37492	1	10	25	84	"EF"
37493	1¼	10	10	130	"EF"

FLANGED TYPE "REA" ENTRANCE FITTING



Combination entrance cap and flange for out building service entrances in accordance with REA specifications.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs.	Price Schedule
Without DuxSeal Compound				
REA-25	1	24	20	"EF"
With DuxSeal Compound				
REA-26	1	24	21	"EF"

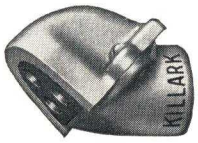
KILLARK SERVICE ENTRANCE FITTINGS

TYPE FB SERVICE ENTRANCE FITTINGS

Weatherproof—For Vertical or Horizontal Conduit



On A Vertical Conduit ½ inch to 1½ inches



On A Horizontal Conduit ½ inch to 1½ inches



On A Vertical Conduit 2 inches to 4 inches



On A Vertical Conduit 4½ inches to 6 inches

Size	Outlets	Std. Pkg.	Wt. Lbs. Per 100	Cat. No.	Price Complete
½	2, 3 & 4	25	75	FB-714	.....
¾	2, 3 & 4	25	86	FB-724	.....
1	2, 3 & 4	25	100	FB-734	.....
1¼	3	10	240	FB-743	.....
1¼	4 & 5	10	240	FB-745	.....
1½	2	5	250	FB-752	.....
1½	3	5	250	FB-753	.....
1½	4 & 5	5	250	FB-755	.....
2	2	5	1100	FB-762	.....
2	3	5	1100	FB-763	.....
2	4	5	1100	FB-764	.....
2½	2	1	2400	FB-772	.....
2½	3	1	2400	FB-773	.....
2½	4	1	2400	FB-774	.....
3	2	1	2500	FB-782	.....
3	3	1	2500	FB-783	.....
3	4	1	2500	FB-784	.....
3½	2	1	4200	FB-792	.....
3½	3	1	4200	FB-793	.....
3½	4	1	4200	FB-794	.....
4	2	1	4500	FB-702	.....
4	3	1	4500	FB-703	.....
4	4	1	4500	FB-704	.....
4½	2	1	7400	FB-7112	.....
4½	3	1	7400	FB-7113	.....
4½	4	1	7400	FB-7114	.....
5	2	1	7400	FB-7122	.....
5	3	1	7400	FB-7123	.....
5	4	1	7400	FB-7124	.....
6	2	1	7400	FB-7142	.....
6	3	1	7400	FB-7143	.....
6	4	1	7400	FB-7144	.....

Composition insulators included. These fittings may be ordered with 2, 3, 5, 6, 7 or 8 holes. On 1¼-inch fittings, three holes will be supplied unless otherwise specified.

KILLARK SERVICE ENTRANCE FITTINGS

TYPE FB THREADLESS ENTRANCE FITTINGS

For Standard Threadless or Thinwall Conduit



Composition insulators included. These fittings may be ordered with 2, 3, 4, 5, 6, 7 or 8 holes. On 1¼-inch and 1½-inch fittings, three holes will be supplied unless otherwise specified.

Size	Outlets	Std. Pkg.	Wt. Lbs. Per 100	For Threadless Standard Conduit	For Thinwall Conduit	Price Complete
½	2, 3 & 4	25	75	NFB-714	YFB-714	.....
¾	2, 3 & 4	25	86	NFB-724	YFB-724	.....
1	2, 3 & 4	25	100	NFB-734	YFB-734	.....
1¼	3	10	240	NFB-743	YFB-743	.....
1¼	3, 4 & 5	10	240	NFB-745	YFB-745	.....
1½	3	10	240	NFB-753	YFB-753	.....
1½	3, 5 & 5	10	240	NFB-755	YFB-755	.....

TYPE SLB ENTRANCE ELBOWS

With Rubber Gasket

Size	Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Each
½	SLB-1	50	66	.....
¾	SLB-2	25	85	.....
1	SLB-3	25	127	.....
1¼	SLB-4	5	250	.....
1½	SLB-5	5	345	.....
2	SLB-6	1	540	.....
2½	SLB-7	1	850	.....
3	SLB-8	1	1233	.....



Sizes to and including 6-inch can be furnished.



TYPE SLB THREADLESS ENTRANCE ELBOWS

For Threadless Standard or Thinwall Conduit

Size	Std. Pkg.	Wt. Lbs. Per 100	For Threadless Standard Conduit	For Thinwall Conduit	Price Each
½	25	66	NSLB-1	YSLB-1	.....
¾	25	85	NSLB-2	YSLB-2	.....
1	10	127	NSLB-3	YSLB-3	.....
1¼	5	250	NSLB-4	YSLB-4	.....
1½	5	345	NSLB-5	YSLB-5	.....
2	1	540	NSLB-6	YSLB-6	.....

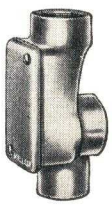
TYPE SLB ENTRANCE ELBOWS

With Grounding Hub for ½-inch Threaded Conduit

Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	Cat. No.	Price Each
¾	25	100	GSLB-2	.....
1	25	150	GSLB-3	.....
1¼	5	225	GSLB-4	.....

With Grounding Hub and Adapter for ¾-inch Threaded Conduit

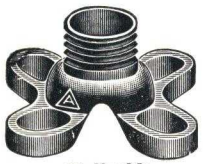
¾	25	100	GSLB-22	.....
1	25	150	GSLB-32	.....
1¼	5	225	GSLB-42	.....



APPLETON CONDUIT FITTINGS

Cadmium Finish

HICKEY FIXTURE STEMS



Malleable



Steel

Cat. No.	Size Inches	Material	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
8050	⅜	Malleable	100	1000	75	"CF"
8090	⅜	Steel	100	1000	76	"CF"
8091	⅜M-⅛F	Steel	100	1000	75	"CF"
8052	½	Malleable	100	500	55	"CF"

BOLTLESS FIXTURE STEMS



Malleable
Manufactured under U.S. Pat. No. 1,294,790.

Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
		Solid Type			
8055	⅜	100	1000	72	"CF"
8057	½	100	1000	80	"CF"
		Open Type			
8056	⅜	100	1000	72	"CF"
8058	½	100	1000	80	"CF"
8070	{⅜M ⅛F}	100	1000	80	"CF"

"E-Z-ON" FIXTURE STEMS

Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
		Solid Type			
8059	⅜	100	1000	60	"CF"
		Open Type			
8060	⅜	100	1000	60	"CF"



No. 8060

FIXTURE EXTENSION PIECES



⅜-inch Male by ⅜-inch Female

Cat. No.	Lgth. Inches	Carton	Std.‡ Pkg.	Wt. Lbs. Per 1000	Price Schedule
18830	1	100	1000	52	"CF"
18831	1⅜	100	1000	70	"CF"

COMBINATION EXTENSION PIECES

These new extension pieces have internal threads in addition to the standard male thread, so that they may also be used for bracket outlets.



No. 18835



No. 18836

Cat. No.	Size and Description	Carton	Std.‡ Pkg.	Wt. Lbs. Per 1000	Price Schedule
18835	⅜" Female x ⅜" Male, and ⅛" Female—1 inch long	100	1000	52	"CF"
18836	⅜" Female x ⅜" Male, and ⅛" and ¼" Female — 1 inch long	100	1000	50	"CF"

‡Extensions may be assorted to make up standard package quantities.

NATIONAL ELECTRIC FLEXTUBE

SLICK-FINISH FLEXIBLE TUBING



Trade Size Inside Diam., Inches	Actual Size Inside Diam., Inches	Feet Per Coil	Wt.,Lbs., Per 1000 Feet
7/32	.285	250	33
¼	.325	250	35
⅜	.435	250	55
½	.560	200	73
⅝	.685	200	99
¾	.810	150	145
1	1.060	100	182
1¼	1.365	Orders for	338
1½	1.560	Odd Lengths	440
1¾	1.865	will be filled	.....
2	2.115	with nearest	.....
2¼	2.365	odd lengths.	.....
2½	2.560		.....

PARANITE FLEXIBLE STEEL CONDUIT

STEEL CONDUIT—SINGLE STRIP



Paranite flexible steel conduit is formed spirally in one continuous length of galvanized steel strip —interlocked construction. This type of construction permits greater flexibility and creates a continuous metal-to-metal grounding contact throughout the entire length of the conduit. May be used in place of rigid conduit. Useful for short runs in cramped locations where bends must be sharp or irregular.

Trade Size Inside Diameter	Actual Inside Dia.	Approx. Outside Diameter	Approx. Net Wt. M Feet	Std. Coil Lgth.	Approx. Shpg. Wt. Lbs.
5/16	.3125	.530	160	250′	40
⅜	.375	.570	195	250′	49
½	.625	.898	490	100′	49
¾	.8125	1.086	620	50′	31
1	1.0	1.363	1180	50′	59
1¼	1.250	1.625	1420	50′	71
1½	1.5	1.860	1800	25′	45
2	2.0	2.445	2280	25′	57
2½	2.5	2.953	2840	25′	71
3	3.0	3.400	3130	25′	75

PARANITE ARMORED BUSHED-CABLES

Paranite armored bushed cable is made of soft heavily tinned solid or stranded copper wires individually insulated with code rubber compound and covered with cotton braid, saturated with moisture-resisting and flame-retarding compound — smoothly finished. Individual conductors are finished in different colors for identification purposes. Multiple conductors are twisted and covered over all with a tough over-lapping saturated Kraft paper armor which furnishes additional protection between the insulated wires and the steel armor.

SINGLE CONDUCTOR—TYPE AC—600 VOLTS



1 2 3 4 5 6

1. Tinned copper conductor. 2. Code rubber insulation. 3. Cotton braid saturated with moisture-resisting, flame-retarding compound. 4. Tough, paper armor. 5. Anti-short bushing. 6. Flexible steel armor-locked construction. Paranite armored wire is doubly guarded against short circuit. The paper armor strips clean, providing space for the anti-short bushings. Used for grounding interior wiring systems.

Size A.W.G.	Ampere Carrying Capacity	Stranding No. and Mil Dia. of Wires	Rubber Wall 64ths	App. Outside Dia.	Standard Length Feet Coils	Approx. Shpg. Wt. Lbs.
8	35	1x128.5	4	.485	250′	53
8	35	7x 48.6	4	.510	250′	56
6	50	1x162.0	4	.654	250′	72
6	50	7x 61.2	4	.675	250′	73
4	70	7x 77.2	4	.729	250′	94
2	90	7x 97.4	4	.774	250′	120
1	100	19x 66.4	5	.859	100′	67

SINGLE CONDUCTOR—BARE ARMORED GROUND WIRE



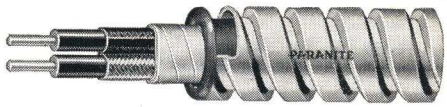
1 2

1. Tinned copper conductor. 2. Flexible steel armor — heavily zinc coated — interlocked construction. Paranite armored ground wire is used for grounding interior wiring systems where it is necessary to protect the copper conductor from mechanical injury. Tinning the copper wire facilitates soldering in lugs. It is especially useful in cramped locations where short, sharp or irregular conduit bends are not practical.

Size A.W.G.	Ampere Carrying Capacity	Stranding No. and Mil Dia. of Wires	Approx. Outside Dia.	Standard Lgth. Ft. Coil	Approx. Shpg. Wt. Lbs.
8	50	1x128.5	.294	250′	35
8	50	7x 48.6	.304	250′	35
6	70	1x162.0	.322	250′	42
6	70	7x 61.2	.344	250′	42
4	90	1x204.3	.264	250′	55
4	90	7x 97.4	.291	250′	56

PARANITE ARMORED BUSHED-CABLES

TWO CONDUCTOR—TYPE AC—600 VOLTS



1 2 3 4 5 6

1. Tinned copper conductors. 2. Code rubber insulation. 3. Cotton braid saturated with moisture-resisting, flame-retarding compound — color coded. 4. Twisted conductors covered with tough, overlapping, saturated paper armor. 5. Anti-short bushing. 6. Flexible steel armor — interlocked construction. For general lighting and power wiring in non-fireproof homes, either concealed or exposed in dry locations.

Size A.W.G.	Ampere Carrying Capacity	Stranding No. and Mil Dia. of Wires	Rubber Wall 64ths	App. Outside Dia.	Std. Lgth. Ft. Coil	App. Shpg. Wt.Lbs.
18*	3	16x 10.3	2	.395	250′	39
16*	6	26x 10.3	2	.410	250′	42
14*	15	41x 10.3	2	.585	250′	66
14	15	1x 64.08	2	.554	250′	50
12	20	1x 80.81	2	.598	250′	57
10	25	1x101.9	3	.630	250′	81
8	35	1x128.5	4	.800	150′	91
8	35	7x 48.6	4	.825	150′	91
6	50	7x 61.2	4	.895	100′	70
4	70	7x 77.2	4	.990	100′	85

*Lamp cords—Type CA—Sizes 18 and 16 for 300-volt service.

THREE AND FOUR CONDUCTOR—TYPE AC 600 VOLTS



1 2 3 4 5 6

Paranite three and four-conductor armor bushed cables are constructed same as above. Anti-short bushings are additional protection against short circuits which may be caused by the sharp saw-cut edge of the steel armor. For concealed or exposed wiring in industrial plants and other buildings — dry locations only. Useful for fishwork on remodeling jobs. When exposed to dampness use type ACL.

Three Conductor Cables

Size A.W.G.	Ampere Carrying Capacity	Stranding No. and Mil Dia. of Wires	Rubber Wall 64ths	App. Outside Dia.	Std. Lgth. Ft. Coil	App. Shpg. Wt.Lbs.
14	15	1x 64.08	2	.585	250′	57
12	20	1x 80.81	2	.645	250′	68
10	25	1x101.9	3	.665	250′	100
8	35	1x128.5	4	.885	150′	108
8	35	7x 48.6	4	.880	150′	110
6	50	7x 61.2	4	1.015	100′	85
4	70	7x 77.2	4	1.107	100′	115

Four Conductor Cables

14	15	1x 64.08	2	.632	250′	87
12	20	1x 80.81	2	.675	250′	105
10	25	1x101.9	3	.810	150′	90
8	35	7x 48.6	4	1.025	100′	95
6	50	7x 61.2	4	1.117	100′	105
4	70	7x 77.2	4	1.195	100′	143

PARANITE ARMORED LEADED-CABLES

Armored bushed cable is primarily intended for use in dry locations. For installation out of doors and in particular locations where mush moisture or dampness is present, the use of Paranite armored leaded cable is recommended.

TWO CONDUCTOR—TYPE ACL—600 VOLTS



1 2 3 4 5

1. Tinned copper conductors. 2. Code rubber insulation. 3. Cotton braid or rubber-filled tape — color coded for identification purposes. 4. Conductors laid parallel — lead sheathed. 5. Flexible steel armor — interlocked construction. For use same as Paranite armored bushed cables except that this cable, because its conductors are enclosed in a continuous lead sheath, is able to resist moisture and dampness.

Size A.W.G.	Ampere Carrying Capacity	Stranding No. and Dia. of Wires	Mil Rubber Wall 64ths	Lead Sheath 64ths	Approx. Outside Dia.	Std. Lgth. Coil	Approx. Shpg. Wt. Lbs.
14	15	1x 64.08	2	2	.600	150′	67
12	20	1x 80.81	2	2	.650	150′	72
10	25	1x101.9	3	2	.665	100′	67
8	35	7x 48.6	4	3	.835	100′	102
6	50	7x 61.2	4	3	1.020	100′	124

THREE CONDUCTOR—TYPE ACL—600 VOLTS



1 2 3 4 5 6

1. Tinned copper conductors. 2. Code rubber insulation. 3. Cotton braid or rubber-filled tape — coded for identification. 4. Conductors twisted and taped. 5. Lead sheath. 6. Flexible steel armor — interlocked construction. Paranite lead-covered cables, because of their ability to resist moisture, may be used out of doors for connecting signs, floodlights, etc., and in damp indoor locations.

Size A.W.G.	Ampere Carrying Capacity	Stranding No. and Dia. of Wires	Mil Rubber Wall 64ths	Lead Sheath 64ths	Approx. Outside Dia.	Std. Lgth. Coil	Approx. Shpg. Wt. Lbs.
14	15	1x 64.08	2	2	.650	150′	76
12	20	1x 80.81	2	2	.680	150′	112
18	25	1x101.9	3	2	.735	100′	81
8	35	7x 48.6	4	3	.935	100′	136
6	50	7x 61.2	4	3	1.125	100′	148
4	70	7x 77.2	4	4	1.360	100′	274

NATIONAL ELECTRIC NON-METALLIC SHEATHED CABLE

"CANVAS-BACK" LOOMWIRE

For Dry Locations—Normal Requirements
New Smaller Over-all Diameter



National Electric Loom Wire has canvas back covering on each individual conductor giving complete protection right up to the terminal screw. Paper pulling is eliminated as the covering takes the place of the old craft paper wrapping.

Duplex Loomwire

Without Ground-Wire: Size of Cable	Approx. Ft. Per Coil	Approx. Lbs. Per 1000 Ft.	With Ground-Wire: Size of Cable	Approx. Ft. Per Coil	Approx. Lbs. Per 1000 Ft.
14/2	250	85	14/2	250	89
12/2	200	102	12/2	200	112
10/2	200	145	10/2	200	165
8/2	125	240	*8/2	125	260
6/2	125	320	*6/2	125	362
4/2	125	488	*4/2	125	560
Triplex Loomwire					
14/3	200	120	14/3	200	130
12/3	200	148	12/3	200	158
10/3	200	245	10/3	200	265
8/3	150	265	8/3	150	300
6/3	125	512	6/3	125	566
4/3	125	712	4/3	125	796

*Unless order specifies "With Heavy Grounding-Wire", cable with standard size of grounding-wire will be shipped, i.e.: No. 8 cable with No. 12 grounding-wire, No. 6 cable with No. 10 grounding-wire, and No. 4 with No. 8 grounding-wire.

Orders specifying "With Heavy Grounding-Wire" will be furnished with No. 10 grounding-wire in No. 8 cable, No. 8 grounding-wire in No. 6 cable, and No. 6 grounding-wire in No. 4 cable at the same price as cable with standard size of grounding-wire.

"CANVAS-BACK" LOOMWIRE WITH TYPE T CONDUCTORS

Without Ground Wire



Size of Cable	Approx. Feet Per Coil	Approx. Lbs. Per 1000 Ft.	Size of Cable	Approx. Feet Per Coil	Approx. Lbs. Per 1000 Ft.
14/2	250	76	12/2	250	97

NE-O-PRENE LOOMWIRE



Non-metallic Sheathed Cable with Ne-o-prene insulation and tough durable Ne-o-prene jacket. For wet locations and severe usage.

Listed by Underwriters' Laboratories, Inc.

Size of Cable	Approx. Feet Per Coil	Shpg. Wt. Per 1000 Ft.	Size of Cable	Approx. Feet Per Coil	Shpg. Wt. Per 1000 Ft.
14/2	250	100	14/3	200	170
12/2	200	120	12/3	200	200

APPLETON BOX CONNECTORS

For Non-Metallic Sheathed Cable 1947 N.E.C. Code and Non-Metallic Flexible Tubing



No. 7300 Patent Applied For "Loxbox" Type Without Locknut



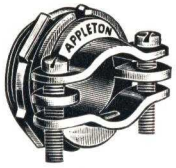
No. 7316



No. 7275 Regular Type With Locknut

Cat. No.	Size In.	Size K.O.	Approx. Opening Inches	Approx. Closed Inches	Wire Throat	Std. Pkg.	Carton	Wt. Lbs. per 1000
For **1947 Code Non-Metallic Sheathed Cable**—14-2, 12-2, 12-3, 10-2, 10-3. **Standard Non-Metallic Sheathed Cable**—14-2, 14-3.								
7300	⅜	½	.656	.375	19/32	1000	100	62
For 1947 Code Non-Metallic Sheathed Cable—14-2, 14-3, 12-2, 12-3, 10-2, 10-3. **Standard Non-Metallic Sheathed Cable**—14-2, 14-3.								
7316	⅜	½	.656	.375	19/32	1000	100	73
For **1947 Code Non-Metallic Sheathed Cable**—14-2, 14-3, 12-2, 12-3, 10-2, 10-3. **Standard Non-Metallic Sheathed Cable**—14-2, 14-3.								
7275	⅜	½	.656	.375	19/32	1000	100	73

For Larger Sizes of Non-Metallic Sheathed Cable



No. 15233

These connectors will also take Service Entrance Cable.

Cat. No.	Size K.O.	Approx. Opening Inches	Approx. Closed Inches	Wire Throat	Std. Pkg.	Carton	Wt. Lbs. Per 1000
15233	¾	.750	.500	¾	50	25	200
15234	1	.937	.750	15/16	20	10	300
15235	1¼	1.375	.937	1⅜	20	10	270

CORD AND BARE ARMORED GROUND WIRE CONNECTOR



No. 7286

This new Connector has been especially designed to take Rubber Jacketed Portable Cords or any type of cable having an outside diameter of 5/16 to ½ inch. Makes an ideal connector for use with Bare Armored Ground Wire. By removing the locknut, it can be screwed into any ½-inch Conduit Ground Fitting.

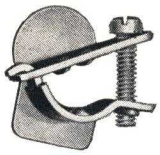
Cat. No.	Size K.O.	Approx. Opening Inches	Approx. Closed Inches	Std. Pkg.	Carton	Wt. Lbs. Per 1000
7286	½	.500	.187	1000	50	83

Schedule "BC" Discounts

NATIONAL ELECTRIC CONNECTORS

LOOMWIRE CONNECTORS

ROCK-IN TYPE



For 14/2, 14/3, 12/2 and 12/3 Loomwire.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 1000
9049-EZ	50	1000	66

LOOMWIRE CONNECTORS

For 14/2, 14/3, 12/2, 12/3 Loomwire.
U.S. Patent No. 1,776,652.
.584 inch open .343 inch closed.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 1000
9050-EZ	50	1000	68



For 10/2, 10/3 Loomwire.
.670 inch open .500 inch closed.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 1000
9051-EZ	50	1000	68

APPLETON BOX CONNECTORS

STRAIGHT BOX CONNECTORS—WITH CLAMP

For Flexible Steel Conduit and Armored Cable with 1940 Code Rubber Insulation, and 1947 N.E.C. Code Rubber Insulation



Patent Applied For No. 7301 "Loxbox" Type Without Locknut



No. 7230-V Regular Type With Locknut

Cat. No.	Size In.	Size K.O. In.	Approx. Opening In.	Approx. Closed In.	Diam. of Bushed Hole In.	Wt. Lbs. Per 1000
For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4. Flexible Steel Conduit ⅜-inch.						
7301	⅜	½	.656	.375	13/32	62
Standard package, 1000; carton quantity, 100.						
For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4. Flexible Steel Conduit ⅜-inch.						
7230-V	⅜	½	.656	.375	13/32	86
Standard package, 1000; carton quantity, 100.						
For **Armored Cable 1940 Code**—6-3, 6-4, 8-2L, 8-3L. Flexible Steel Conduit ½-inch.						
7231-V	½	½	.938	.687	9/16	140
Standard package, 100; carton quantity, 20.						
For **Armored Cable 1940 Code**—6-3, 6-4, 6-3L, 6-4L. Flexible Steel Conduit ¾-inch.						
7312-V	¾	¾	1.062	.750	11/16	210
For Flexible Steel Conduit 1-inch.						
7313-V	1	1	1.312	1.000	1	320
Standard package, 25; carton quantity, 5.						

Schedule "BC" Discounts

APPLETON BOX CONNECTORS

For Flexible Steel Conduit and Armored Cable with 1940 Code Rubber Insulation, and 1947 N.E.C. Code Rubber Insulation



No. 7285-V
Pat. No. 1,794,505



No. 7315-V

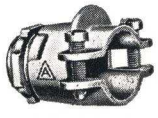


No. 7260-V with Clamp in Regular Position Open to Maximum Capacity

Cat. No.	Size In.	Size K.O. In.	Approx. Opening In.	Approx. Closed In.	Diam. of Bushed Hole In.	Wt. Lbs. Per 1000
For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4. Flexible Steel Conduit ⅜ inch.						
7285-V	⅜	½	.625	.250	13/32	75
Standard package, 1000; carton quantity, 100.						
For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4. Flexible Steel Conduit ⅜ inch.						
7315-V	⅜	½	.531	.250	13/32	87
Standard package, 1000; carton quantity, 100.						
For 14-2, 14-3, 12-2 **Non-Metallic Sheathed Cable with Type "T" or 1947 Code Rubber Insulation and Non-Metallic Flexible Tubing** also 14-2 **Standard Non-Metallic Sheathed Cable.** Will also take rubber jacketed portable cords having an outside diameter of from 5/32-inch to 21/32-inch.						
Reverse clamp for 3/16 inch diameter ground wire.						
7260-V	⅜	½	.500	.406	....	98
Standard package, 1000; carton quantity, 100.						



No. 7225-V



No. 7287-V

Cat. No.	Size In.	Size K.O. In.	Approx. Opening In.	Approx. Closed In.	Diam. of Bushed Hole In.	Wt. Lbs. Per 1000
For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4. Flexible Steel Conduit ⅜ inch.						
7225-V	⅜	½	.375	.375	13/32	76
Standard package, 1000; carton quantity, 100.						
For **Armored Cable 1940 Code**—6-3, 6-4, 8-2L, 8-3L. Flexible Steel Conduit ½ inch.						
7287-V	½	½	.937	.500	7/16	120
For **Armored Cable 1940 Code**—6-3, 6-4, 8-2L, 8-3L. Flexible Steel Conduit 1 inch.						
7288-V	½S	¾	.937	.500	¾	200
Standard package, 100; carton quantity, 25.						
For **Armored Cable 1940 Code**—6-3, 6-4, 6-3L, 6-4L. Flexible Steel Conduit ¾ inch.						
7289-V	¾	¾	1.062	.875	¾	220
Standard package, 100; carton quantity, 25.						

Schedule "BC" Discounts

APPLETON BOX CONNECTORS

For Flexible Steel Conduit and Armored Cable with 1940 Code Rubber Insulation, and 1947 N.E.C. Code Rubber Insulation



No. 7265-V



Nos. 7480-V to 7484 Incl. With One Screw



Nos. 7485 to 7488 Incl. With Two Screws

Appleton Large Size Squeeze Box Connectors are made of heavy malleable iron, in sizes from ⅜-inch up to 3 inches, to take all sizes of Armored Cable, Flexible Metallic Conduit and Armored Service Entrance Cable. Sizes 1½ to 3 inches are furnished with two screws, providing a double grip on the cable that eliminates any danger of the cable slipping out on short bends. Cadmium finish and provided with the popular Appleton "E-Z-On" locknuts.

Cat. No.	Size In.	Size K.O. In.	Approx. Opening In.	Approx. Closed In.	Diam. of Bushed Hole In.	Wt. Lbs. Std. Pkg.
For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4. Flexible Steel Conduit 5/8-inch.						
7265-V	⅜	½	.531	.375	13/32	83
Standard package, 1000; carton quantity, 100.						
For **Armored Cable 1947 Code** Nos. 14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code** Nos. 14-2, 14-3, 14-4, 12-2, 12-3, 12-4. Flexible Steel Conduit ⅝-inch.						
***7480-V**	⅜	½	.656	.563	17/32	11
Standard package, 100; carton quantity, 20.						
For **Armored Cable 1940 Code** Nos. 6-3, 6-4, 8-2L, 8-3L. Flexible Steel Conduit ½-inch.						
***7481-V**	½	½	.938	.813	9/16	15
Standard package, 100; carton quantity, 25.						
For **Armored Cable 1940 Code** Nos. 6-3, 6-4, 6-3L, 6-4L. Flexible Steel Conduit ¾-inch.						
***7482-V**	¾	¾	1.125	.955	13/16	21
Standard package, 100; carton quantity, 21.						
For Flexible Steel Conduit 1-inch.						
7483	1	1	1.406	1.250	1	8
Standard package, 25; carton quantity, 5.						
For Flexible Steel Conduit 1¼-inch.						
7484	1¼	1¼	1.656	1.500	1¼	5
Standard package, 10; carton quantity, 5.						
For Flexible Steel Conduit 1½-inch.						
7485	1½	1½	1.875	1.688	1½	7
Standard package, 10; carton quantity, 5.						
For Flexible Steel Conduit 2-inch.						
7486	2	2	2.500	2.313	2	11
Standard package, 10; carton quantity, 5.						
For Flexible Steel Conduit 2½-inch.						
7487	2½	2½	3.000	2.813	2½	9
Standard package, 5; carton quantity, 5.						
For Flexible Steel Conduit 3-inch.						
7488	3	3	3.563	3.313	3	11
Standard package 5; carton quantity, 5.						

*With Peek-holes for Anti-short Bushing.

Schedule "BC" Discounts

APPLETON BOX CONNECTORS

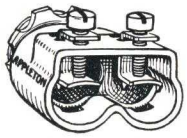
For Flexible Steel Conduit and Armored Cable with 1940 Code Rubber Insulation, and 1947 N.E.C. Code Rubber Insulation



45° Connector



90° Connector



No. 7240-V

45-Degree Angle Box Connectors

Cat. No.	Size In.	Size K.O.	Approx. Opening Inches	Approx. Diam. Closed Inches	Bushed Hole	Std. Pkg.	Car-ton	Pkg. Wt.
For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4 Flexible Steel Conduit ⅜ inch.								
7233-V	⅜	½	.625	.375	13/32	100	50	10
For **Armored Cable 1940 Code**—6-3, 6-4, 8-2L, 8-3L Flexible Steel Conduit ½ inch.								
7234-V	½	½	.937	.500	13/32	100	50	17

90-Degree Angle Box Connectors

For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4 Flexible Steel Conduit ⅜ inch.								
7235-V	⅜	½	.625	.375	13/32	100	50	12
For **Armored Cable 1940 Code**—6-3, 6-4, 8-2L, 8-3L Flexible Steel Conduit ½ inch.								
7236-V	½	½	.937	.500	13/32	100	25	26
For 6-3, 6-4, 6-3L, 6-4L Flexible Steel Conduit ¾ inch.								
7237-V	¾	¾	1.062	.875	¾	50	25	13

Duplex Connector—With Clamp

For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4 Flexible Steel Conduit ⅜ inch.								
7240-V	⅜	½	.625	.375	13/32	100	50	19



No. 7245-V



Nos. 7246-V, 7247-V

45 Degree Angle Box Connectors

Cat. No.	Size In.	Size K.O.	Approx. Opening Inches	Approx. Diam. Closed Inches	Bushed Hole	Std. Pkg.	Car-ton	Pkg. Wt.
For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4 Flexible Steel Conduit ⅜ inch.								
7245-V	⅜	½	.656	.400	17/32	100	50	16
For **Armored Cable 1940 Code**—6-3, 6-4, 8-2L, 8-3L Flexible Steel Conduit ½ inch.								
7246-V	½	½	.938	.813	9/16	100	25	24
For **Armored Cable 1940 Code**—6-3, 6-4, 6-3L, 6-4L Flexible Steel Conduit ¾ inch.								
7247-V	¾	¾	1.125	.955	13/16	50	10	22

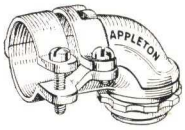
Schedule "BC" Discounts

APPLETON BOX CONNECTORS

For Flexible Steel Conduit and Armored Cable with 1940 Code Rubber Insulation, and 1947 N.E.C. Code Rubber Insulation



No. 7380-V
Pat. 1,888,546



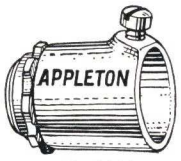
Nos. 7381-V to 7386, Inclusive

90-Degree Angle Box Connectors

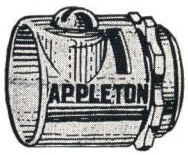
Cat. No.	Size In.	Size K.O.	Approx. Opening Inches	Approx. Diam. Closed Inches	Bushed Hole	Std. Pkg.	Car-ton	Pkg. Wt.
For **Armored Cable 1947 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2. **Armored Cable 1940 Code**—14-2, 14-3, 14-4, 12-2, 12-3, 12-4 Flexible Steel Conduit ⅜ inch.								
7380-V	⅜	½	.656	.400	17/32	100	50	16
For **Armored Cable 1940 Code**—6-3, 6-4, 8-2L, 8-3L Flexible Steel Conduit ½ inch.								
7381-V	½	½	.937	.813	9/16	100	25	26
For **Armored Cable 1940 Code**—6-3, 6-4, 6-3L, 6-4L Flexible Steel Conduit ¾ inch.								
7382-V	¾	¾	1.125	.955	13/16	100	25	26
For Flexible Steel Conduit 1 inch.								
7383	1	1	1.406	1.250	1	25	5	25
For Flexible Steel Conduit 1¼ inch.								
7384	1¼	1¼	1.656	1.500	1¼	10	5	11
For Flexible Steel Conduit 1½ inch.								
7385	1½	1½	1.875	1.688	1½	10	5	17
For Flexible Steel Conduit 2 inch.								
7386	2	2	2.500	2.313	2	5	5	15

SET SCREW CONNECTORS

For Flexible Steel Conduit



No. 7251



No. 7252

These connectors are made in ¾-inch to 2-inch sizes. They are the regular set-screw types of connectors and hold the Flexible Steel Conduit very securely.

Cat. No.	Size In.	Size K.O.	Approx. Opening Inches	Approx. Diam. Closed Inches	Bushed Hole	Std. Pkg.	Car-ton	Pkg. Wt.
7250	⅜	½	.625	.500	1/16	1000	100	----
7251	½	½	.938	.750	⅝	100	20	27
7252	¾	¾	1.125	1.000	¾	100	25	18
7253	1	1	1.406	1.250	1	25	5	11
7254	1¼	1¼	1.687	1.500	1 5/16	10	5	6
7255	1½	1½	2.000	1.750	1½	10	5	8
7256	2	2	2.437	2.187	2	10	5	11

Schedule "BC" Discounts

APPLETON ENTRANCE FITTINGS



For use with Oval and Round Bare Neutral Concentric Service Entrance Cable and also Round Armored Service Entrance Cable.

Diameter of Opening for Cable: Minimum, $\frac{5}{16}$x$\frac{5}{8}$ inches; Maximum, $\frac{21}{32}$x$\frac{13}{16}$ inches.

Cat. No. Alumi-num	Size Cable Ins. Cond.	Size Cable Bare Neutral	Under-writers' Type of Cable	Std. Pkg.	Car-ton	Price Sched-ule
	1–12	1–12				
	2–12	1–12				
	1–10	1–10				
	2–10	1–12				
	2–10	1–10	SE			
15200	1– 8	1– 8	and	50	5	**"OF"**
	2– 8	1–10	SD			
	2– 8	1– 8				
	1– 6	1– 8				
	1– 6	1– 6				
	1– 4	1– 6				
	1– 4	1– 4				



For use with Oval and Round Bare Neutral Concentric Service Entrance Cable and also Round Armored Service Entrance Cable.

Diameter of Opening for Cable: Minimum, $\frac{15}{32}$x$\frac{11}{16}$ inches; Maximum, $\frac{23}{32}$x1$\frac{1}{32}$ inches.

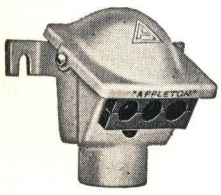
Cat. No. Alumi-num	Size Cable Ins. Cond.	Size Cable Bare Neutral	Under-writers' Type of Cable	Std. Pkg.	Car-ton	Price Sched-ule
	2–6	1–8				
	2–6	1–6	SE			
15201	2–4	1–6	and	50	5	**"OF"**
	2–4	1–4	SD			
	1–2	1–2				



For use with Oval and Round Bare Neutral Concentric Service Entrance Cable and also Round Armored Service Entrance Cable.

Diameter of Opening for Cable: Minimum, $\frac{13}{32}$ inch; Maximum, $\frac{7}{8}$ inch.

Cat. No. Alumi-num	Size Cable Ins. Cond.	Size Cable Bare Neutral	Under-writers' Type of Cable	Std. Pkg.	Car-ton	Price Sched-ule
	2–12	1–12				
15205	2–10	1–12	ASE	50	5	**"OF"**
	2–10	1–10				
	2– 8	1– 8				



For use with Oval and Round Bare Neutral Concentric Service Entrance Cable and also Round Armored Service Entrance Cable.

Diameter of Opening for Cable: Minimum, $\frac{13}{32}$ inch; Maximum, 1$\frac{3}{32}$ inches.

Cat. No. Alumi-num	Size Cable Ins. Cond.	Size Cable Bare Neutral	Under-writers' Type of Cable	Std. Pkg.	Car-ton	Price Sched-ule
	2–6	1–8				
	2–6	1–6				
15206	2–4	1–6	ASE	5	1	**"OF"**
	2–4	1–4				
	2–2	1–2				

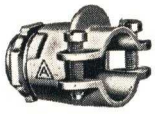
APPLETON BOX CONNECTORS

Malleable Iron, Cadmium Finish

NON-WATERTIGHT CONNECTORS



No. 7285-V



No. 7288-V

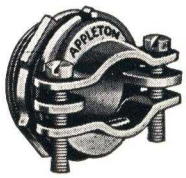
Fits ½-inch K.O. or Threaded Fitting

Cat. No.	Opening For Cable Trade Size	Max. I.D.	Min. I.D.	Wire Throat	Size Cable Ins. Cond.	Size Cable Bare Neu.	Under-writers' Type of Cable	Price Sched-ule
					1–14	1–14		
					1–12	1–12	SE	
7285-V	⅜	⅝	¼	$\frac{7}{16}$	2–12	1–12	and	**"OF"**
					1–10	1–10	SD	
					2–10	1–10		
					1– 8	1– 8		

Fits ¾-inch K.O. or Threaded Fitting

					1– 6	1– 6	SE	
					1– 4	1– 6	and	
7288-V	½	$\frac{15}{16}$	½	¾	1– 4	1– 4	SD	**"OF"**
					2–12	1–12	ASE	
					2–10	1–12	ASE	
					2–10	1–10	ASE	

Standard package: No. 7285-V, 1000; No. 7288-V, 100. Carton quantity: No. 7285-V, 500; No. 7288-V, 20.



No. 15233

Fits ¾-inch K.O. or Threaded Fitting

Cat. No.	Opening For Cable Trade Size	Max. I.D.	Min. I.D.	Wire Throat	Size Cable Ins. Cond.	Size Cable Bare Neu.	Under-writers' Type of Cable	Price Sched-ule
					2– 8	1–10		
					2– 8	1– 8		
					1– 8	1–10		
					1– 8	1– 8		
					1– 6	1– 8		
					1– 6	1– 6	SE	
15233	¾	$\frac{13}{16}$	$\frac{7}{16}$	¾	1– 4	1– 6	and	**"OF"**
					1– 4	1– 4	SD	
					1– 2	1– 4		
					1– 2	1– 2		
					1– 1	1– 1		
					2–12	1–12	ASE	
					2–14		USE	
					3–14		USE	

Fits 1-inch K.O. or Threaded Fitting

					1–2	1–4		
					1–2	1–2		
					1–1	1–1		
15234	1	1$\frac{1}{16}$	$\frac{7}{16}$	1	2–6	1–8	SE	**"OF"**
					2–6	1–6		
					2–4	1–6		
					2–4	1–4		

Standard package: No. 15233, 50; No. 15234, 20. Carton quantity: No. 15233, 25; No. 15234, 10.

APPLETON WATERTIGHT CONNECTORS

TWO-SCREW AND NUT TYPES



Round



Oval



2-Hole

TWO-SCREW TYPE†
Pat. No. 2,170,393
(Patented Aug. 22, 1939)



Round



Oval



2-Hole

NUT TYPE‡

Two-Screw Type† Cat. No.	Nut Type‡ Cat. No.	Size Inches	Size of Opening for Cable	SIZE OF CABLE: Insulated Cond.	SIZE OF CABLE: Bare Neutral	Underwriter's Type of Cable	Price Schedule
25501	25278	¾″	Round ⅜″	1-14 1-12 1-10	1-14 1-12 1-10	SD SD SD	"OF"
25502	25279	1″	Round ⅜″	1-14 1-12 1-10	1-14 1-12 1-10	SD SD SD	"OF"
25506	25280	¾″	Round 7/16″	1-12 1-10 1- 8 1- 8	1-12 1-10 1-10 1- 8	SE SE SD SD	"OF"
25507	25223	1″	Round 7/16″	1-12 1-10 1- 8 1- 8	1-12 1-10 1-10 1- 8	SE SE SD SD	"OF"
25511	25281	¾″	Round 15/32″	1- 8 1- 8 1- 6 1- 6	1-10 1- 8 1- 8 1- 6	SE SE SD SD	"OF"
25512	25255	1″	Round 15/32″	1- 8 1- 8 1- 6 1- 6	1-10 1- 8 1- 8 1- 6	SE SE SD SD	"OF"
25516	25215	¾″	Round 9/16″	1- 6 1- 6 1- 4	1- 8 1- 6 1- 6	SE SD SD	"OF"
25517	25402	1″	Round 9/16″	1- 6 1- 6 1- 4	1- 8 1- 6 1- 6	SE SD SD	"OF"
25521	25419	¾″	Round 21/32″	1- 4 1- 4 1- 2 1- 2	1- 6 1- 4 1- 4 1- 2	SE SE SD SD	"OF"
25522	25217	1″	Round 21/32″	1- 4 1- 4 1- 2 1- 2	1- 6 1- 4 1- 4 1- 2	SE SE SD SD	"OF"
25526	25284	¾″	Round ¾″	1- 2 1- 2 1- 1 2-12 2-14 3-14	1- 4 1- 2 1- 1 1-12	SE SE SE ASE USE USE	"OF"
25527	25225	1″	Round ¾″	1- 2 1- 2 1- 1 2-12 2-14 3-14	1- 4 1- 2 1- 1 1-12	SE SE SE ASE USE USE	"OF"
25555	25227	1¼″	Round 1 1/32″	2- 8	1- 8	ASE	"OF"
25556	25228	1¼″	Round 1 3/32″	2- 6 2- 6	1- 8 1- 6	ASE ASE	"OF"
25557	25429	1¼″	Round 1 7/32″	2- 4 2- 4	1- 6 1- 4	ASE ASE	"OF"
25558	25401	1¼″	Round 1 1/32″	2- 2 2- 2	1- 4 1- 2	ASE ASE	"OF"
25531	25285	¾″	Oval 7/16 x 9/16″	2-12 2-10 2-10	1-12 1-12 1-10	SE & SD SE & SD SD	"OF"
25532	25224	1″	Oval 7/16 x 9/16″	2-12 2-10 2-10	1-12 1-12 1-10	SE & SD SE & SD SD	"OF"
25536	25413	¾″	Oval 17/32 x 25/32″	2-10 2- 8 2- 8	1-10 1-10 1- 8	SE SE & SD SD	"OF"
25537	25412	1″	Oval 17/32 x 25/32″	2-10 2- 8 2- 8	1-10 1-10 1- 8	SE SE & SD SD	"OF"
25542	25211	1″	Oval 5/8 x 7/8″	2- 8 2- 6 2- 6	1- 8 1- 8 1- 6	SE SE & SD SE & SD	"OF"
25547	25212	1″	Oval 11/16 x 63/64″	2- 4 2- 4	1- 6 1- 4	SE & SD SE & SD	"OF"
25552	25270	1″	Two 7/16″ Round Holes	1-12 1-10 1- 8 1- 8	1-12 1-10 1-10 1- 8	SE SE SD SD	"OF"
25560	25423	1¼″	Oval 13/16x1 1/8″	2- 2 2- 2	1- 4 1- 2	SE & SD SE & SD	"OF"
25561	25424	1¼″	Oval 13/16x1 9/32″	2- 1 2- 1	1- 3 1- 1	SE & SD SE & SD	"OF"
25562	25425	1¼″	Two 15/32″ Round Holes	1-10 1- 8 1- 8	1-10 1-10 1- 8	SE & SD SE & SD SE & SD	"OF"

Standard Package and Carton Quanities:
All ¾″ and 1″ sizes.....Standard package, 100; carton, 50.
All 1¼″ sizes.....Standard package, 50; carton, 5.

†Made from non-ferrous metal — will not rust. ‡Malleable Iron, Cadmium Finish.

APPLETON ENTRANCE FITTINGS

APPLETON UNIVERSAL CABLE CLAMPS



Nos. 15275, 25275



Nos. 15276, 25276
15277, 25277

Malleable Iron‡ Cat. No.	Wt. Lbs. Per 100	Price Schedule	Std. Pkg.	Carton	Aluminum Cat. No.	Wt. Lbs. Per 100	Price Schedule
Fits Service Entrance Cable: 2 No. 12, 2 No. 10, 2 No. 8, 2 No. 6, 1 No. 8 and 1 No. 10, 1 No. 6, 1 No. 8, 3 No. 12.							
15275	3	"OF"	100	100	**25275**	2	"OF"
Fits Service Entrance Cable: 2 No. 4, 1 No. 4 and 1 No. 6, 3 No. 10, 2 No. 10 and 1 No. 12, 3 No. 8, 2 No. 8 and 1 No. 10, 3 No. 6, 2 No. 6 and 1 No. 8.							
15276	4½	"OF"	100	100	**25276**	2	"OF"
Fits Service Entrance Cable: 2 No. 2, 1 No. 2 and 1 No. 4, 3 No. 4, 2 No. 4 and 1 No. 6, 3 No. 2, 2 No. 2 and 1 No. 4.							
15277	6	"OF"	100	100	**25277**	3	"OF"

ONE-SCREW CABLE CLAMPS‡



For Round Shaped Cable



For Oval Shaped Cable

For Round Shaped Cable

Cat. No.	For Type SE Cable	For Type SD Cable	Price Schedule
15290	2 No. 12, 2 No. 10 1 No. 10, 1 No. 12	2 No. 10, 2 No. 8	"OF"
15291	2 No. 8, 1 No. 8 1 No. 10, 1 No. 6 1 No. 8, 2 No. 6	2 No. 6, 2 No. 4	"OF"
15242	2 No. 4, 2 No. 2	2 No. 2	"OF"
15243	5 No. 6 (4 insulated, 1 bare) Style ABN		"OF"

For Oval Shaped Cable

15293	3 No. 12, 3 No. 10 2 No. 10, 1 No. 12	3 No. 8, 2 No. 8 and 1 No. 12	"OF"
15240	3 No. 8, 2 No. 8 1 No. 10,	3 No. 6, 2 No. 6 and 1 No. 8	"OF"
15241	3 No. 6, 3 No. 4 2 No. 6, 1 No. 8	2 No. 4, 1 No. 6	"OF"
15295	3 No. 2,	3 No. 2	"OF"

Standard package, 100; carton, 100.

COMPOSITION COVERS FOR APPLETON ENTRANCE FITTINGS



Used on Oval and Round Service Entrance Cable

Cat. No.	Fit Cat. Nos.	Style	Std. Pkg.	Carton	Price Schedule
15500	15200	2 Hole	50	10	"OF"
15501	15201	2 Hole	50	10	"OF"
15502	15205	3 Hole	50	10	"OF"
15503	15206	3 Hole	5	5	"OF"

‡Malleable Iron, Cadmium Finish.

APPLETON ENTRANCE FITTINGS

APPLETON WATERTIGHT CONNECTORS‡



For Use with No. 10 and 8, 5-Conductor, 4 Insulated and 1 Bare

Cat. No.	Bushings Max.	Bushings Min.	Size In.	Std. Pkg.	Carton	Price Schedule
25226	61/64	53/64	1	100	10	"OF"

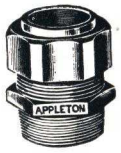
For Use with No. 6, 5-Conductor, 4 Insulated and 1 Bare, Entrance Cable

25229	63/64	57/64	1	100	10	"OF"

With 2-Hole Bushing for Round Cable

Cat. No.	Bushings Max.	Bushings Min.	Size In.	Std. Pkg.	Carton	Price Schedule
25271	1 7/32	7/16	1	100	10	"OF"



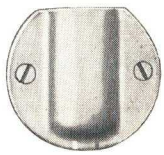


For Round Armored Service Entrance Cable

These connectors are watertight and designed for use with Round Cable where it is necessary to ground the armored sheathing of the cable.

Cat. No.	Fits Cables	Size In.	Carton	Std. Pkg.	Price Schedule
15258	2 or 3 Cond. No. 8	¾	10	100	"OF"
15221	2 or 3 Cond. No. 6	1	5	50	"OF"
15222	2 or 3 Cond. No. 4	1	5	50	"OF"

SILL PLATES FOR SERVICE ENTRANCE CABLE



Appleton Sill Plates provide metallic protection to the Service Entrance Cable at the most hazardous point, that is, where it enters the house. Does away with unsightly bends and makes a more finished and safer installation.

Can be furnished with DuxSeal Weatherproof Compound which is compressed around the cable and fills up the hole when the plate is screwed down. This eliminates the crowding and inconvenience of drilling a hole through the wall, slanting it to the side and up to prevent water from entering the building.

By using DuxSeal Compound the hole can be drilled in a downward position and a longer sweep bend in the cable is made possible. Appleton Sill Plates are made of aluminum and are furnished with two hot-dipped galvanized screws.

Without DuxSeal Weatherproof Compound

Cat. No.	Fits Cable	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
25230	All Sizes to 3 Cond. #4	10	100	12	"OF"
25231	3 Cond. to 2	10	100	14	"OF"

With DuxSeal Weatherproof Compound

25235	All Sizes to 3 Cond. #4	10	100	13	"OF"
25236	3 Cond. to 2	10	100	15	"OF"

DuxSeal Weatherproof Compound

Cat. No.	Description	Price Schedule
25250	1 lb. Package	"OF"
25251	5 lb. Package	"OF"

‡Malleable Iron, Cadmium Finish.

T & B ARMORED CABLE FITTINGS

Approved by Underwriters' Laboratories

"TITE-BITE" AND SQUEEZE CONNECTORS



No. 300
Patented

"Tite-Bite" Straight Connectors

Cat. No.	Trade Size Inches	Size K. O. Inches	MADE TO HOLD Sizes of conductors listed, and others	Throat Bushed Diam. Inches	Std. Pkg.	Weight per 100	List Price per 100
300V	3/8	1/2	14-2, 14-3, 14-4, 12-2, 12-3, 10-2, 4-1, 6-1; Lead 14-2, 14-3, 6-1; Flex. Cond. 3/8"; and others	1/2	1000	8	$ 15.20
301V	3/8A	1/2	14-4, 12-2, 12-3, 12-4, 10-2, 10-3; Lead 12-2, 12-3, 10-2, 4-1; and others	13/32	100	15	15.00
302V	1/2	1/2	10-4, 8-2; Lead 10-3; Flex. Cond. 1/2"; and others.	13/32	100	15	32.60
302V8	1/2	1/2	10-4, 8-2, 8-3; Lead 10-3; Flex. Cond. 1/2"; and others	21/32	100	15	32.60
303V	3/4S	3/4	8-2, 8-3, 6-2; Lead 8-2, 8-3; and others	41/64	100	18	
304V	3/4	3/4	6-2, 6-3, 4-2; Lead 6-2, 6-3; Flex. Cond. 3/4"; and others	41/64	100	20	41.50
305V	1S	1	6-2, 6-3, 4-2, 4-3; Lead 6-2, 6-3, 4-2; and others	41/64	100	20	41.50
306V	1	1	2-2; Lead 4-3; Flex. Cond. 1"; and others	7/8	25	17	60.00
308	1 1/4	1 1/4	Flex. Cond. 1 1/4"	1	25	40	60.00
310	1 1/2	1 1/2	Flex. Cond. 1 1/2"	1 1/4	10	60	80.00
312	2	2	Flex. Cond. 2"	1 1/2	10	100	110.00
314	2 1/2	2 1/2	Flex. Cond. 2 1/2"	2	10	130	158.00
316	3	3	Flex. Cond. 3"	2 1/2	5	220	238.00
				3	5	260	380.00



No. 421
Patented

"Tite-Bite" Angle Connectors

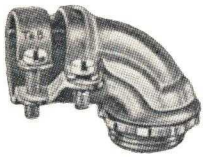
321	3/8-90°	1/2	14-2, 14-3, 14-4, 12-2, 12-3, 10-2, 4-1, 6-1; Lead 14-2, 14-3, 6-1; Flex. Cond. 3/8"; and others	1/2	100	20	$ 37.60
322	3/8A-90°	1/2	14-4, 12-2, 12-3, 12-4, 10-2, 10-3; Lead 12-2, 12-3, 10-2, 4-1; and others	17/32	100	25	52.50
323	1/2-90°	1/2	10-4, 8-2; Lead 10-3; Flex. Cond. 1/2"; and others.	17/32	100	27	52.50
323V8	1/2-90°	1/2	10-4, 8-2, 8-3; Lead 10-3; Flex. Cond. 1/2"; and others	21/32	100	26	52.20
324	3/4S-90°	3/4	8-2, 8-3, 6-2; Lead 8-2, 8-3; and others	41/64	50	32	82.50
325	3/4-90°	3/4	6-2, 6-3, 4-2; Lead 6-2, 6-3; Flex. Cond. 3/4"; and others	41/64	50	34	82.50
326 1/2	1S-90°	1	6-2, 6-3, 4-2, 4-3; Lead 6-2, 6-3, 4-2; and others	7/8	25	60	125.00
326	1-90°	1	2-2; Lead 4-3; Flex. Cond. 1"; and others	1	25	60	125.00
327	1 1/4-90°	1 1/4	Flex. Cond. 1 1/4"	1 1/4	10	120	194.00
328	1 1/2-90°	1 1/2	Flex. Cond. 1 1/2"	1 1/2	10	165	238.00
329	2 -90°	2	Flex. Cond. 2"	2	5	250	350.00
330	2 1/2-90°	2 1/2	Flex. Cond. 2 1/2"	2 1/2	5	500	1000.00
331	3 -90°	3	Flex. Cond. 3"	3	5	650	1376.00



No. 253

Squeeze Straight Connectors

253	3/8	1/2	14-2, 14-3, 12-2; Lead 14-2; Flex. Cond. 3/8"; and others	7/16	1000	7	$ 14.40
260	3/8A	1/2	12-4, 10-2, 10-3; Lead 12-2, 12-3, 10-2; and others	9/16	100	15	31.25
254	1/2	1/2	12-4, 8-2; Lead 10-3; Flex. Cond. 1/2"; and others.	13/32	100	14	31.25
278	3/4S	3/4	8-2, 8-3, 6-2; Lead 8-2, 8-3; and others	3/4	100	18	39.40
255	3/4	3/4	6-2, 6-3, 4-2; Lead 6-2, 6-3; Flex. Cond. 3/4"; and others	3/4	100	19	39.40
264	1S	1	2-2, 4-3; Lead 4-2, 4-3; and others	1	25	24	56.90
256	1	1	Flex. Cond. 1"	1	25	30	56.90
257	1 1/4	1 1/4	Flex. Cond. 1 1/4"	1 5/16	10	45	76.40
258	1 1/2	1 1/2	Flex. Cond. 1 1/2"	1 1/2	10	75	103.75
259	2	2	Flex. Cond. 2"	2	10	100	150.00
249	2 1/2	2 1/2	Flex. Cond. 2 1/2"	2 1/2	5	148	225.00
277	3	3	Flex. Cond. 3"	3	5	180	360.00



No. 266
Patented

Squeeze Angle Connectors

265	3/8-45°	1/2	14-2, 14-3, 12-2; Lead 14-2; Flex. Cond. 3/8"; and others	9/16	100	14	$ 35.75
4466	3/8-90°	3/8	Same cable range as No. 265V	9/16	100	16	35.75
266	3/8-90°	1/2	Same cable range as No. 265V	9/16	100	16	35.75
281	3/8L-45°	1/2	14-3, 14-4, 12-2, 12-3, 10-2; Lead 14-2, 14-3; and others	9/16	100	14	35.75
280	3/8L-90°	1/2	Same cable range as No. 281V	9/16	100	14	35.75
272	3/8A-90°	1/2	Same cable range as No. 271V	9/16	100	15	50.00
267	1/2-45°	1/2	10-4, 8-2; Lead 10-3; Flex. Cond. 1/2"; and others	9/16	100	22	50.00
268	1/2-90°	1/2	Same cable range as No. 267V	9/16	100	22	50.00
279	3/4S-90°	3/4	8-2, 8-3, 6-2; Lead 8-2, 8-3; and others	3/4	50	25	80.00
269	3/4-45°	3/4	6-2, 6-3, 4-2; Lead 6-2, 6-3; Flex. Conduit 3/4"; and others	23/32	50	25	80.00
270	3/4-90°	3/4	Same cable range as No. 269V	23/32	50	25	80.00
273	1-90°	1	Flex. Cond. 1"	1	25	50	120.00
274	1 1/4-90°	1 1/4	Flex. Cond. 1 1/4"	1 1/4	10	100	154.00
275	1 1/2-90°	1 1/2	Flex. Cond. 1 1/2"	1 1/2	10	165	225.00
276	2-90°	2	Flex. Cond. 2"	2	5	250	332.50

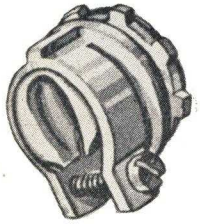


No. 3301

Two-Screw Connector

3301	3/8	1/2	14-2, 14-3, 14-4, 12-2, 12-3, 10-2, 8-1 (Insul.), 6-1, 4-1; Lead 14-2, 14-3, 6-1; Flex. Cond. 3/8"; and others	7/16	1000	6	$ 12.70

T & B CONNECTORS
SQUEEZE TYPE CONNECTORS
For Non-Metallic Sheathed Cable
Approved by Underwriters' Laboratories



The connector has an insert so held in place that it cannot accidentally be displaced but it can readily be removed without taking out the screw. The insert is so designed that the non-metallic flexible cable is held in the center of the connector so that when the strap is tightened down no sharp curve or bend is put in the conductor.

The insert presents a long bearing surface to the conductor. Connectors have threaded ends and are supplied with locknuts.



Patent

Cat. No.	Size K.O.	Made to Hold With Insert	Made to Hold Insert Removed	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	List Per 100
2005	½	14W2 / 12W2	14W3 / 12W3	100	1000	8	$33.75
2006	½	10W2	10W3	50	100	13	43.75
2007	¾	10W2	10W3	25	50	15	50.00
2008	¾	8W2	8W3	25	50	15	50.00
2009	1	6W2	6W3	10	20	20	75.00

"TITE-BITE" CONNECTORS
Approved by Underwriters' Laboratories
With Corrugated Grip for Non-Metallic Sheathed Cable

Connectors for armored or non-metallic sheathed cables. No. 3101 will grip any type or size of cable that will go into it—will take up to 1 No. 4 armored, or ⅜-inch flexible conduit. No. 3101 for non-metallic sheathed cables only.

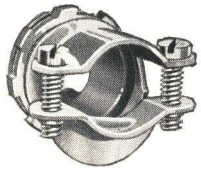
Standard package, 1000.



No. 3101

Cat. No.	Size Inches	Approx. Open Inches	Approx. Closed Inches	Unit Pkg.	Price Per 100
3100	½	.656	.188	500-100	$15.00
3101	½	.656	.300	500-100	17.50

TWO-SCREW CONNECTORS
Approved by Underwriters' Laboratories



Precision made. All edges are rounded. No sharp burrs to harm conductors. The screws thread into the saddle, not the body. Made of steel, protected from corrosion with silvery Tabolite galvanizing.

No. 3301 fits any type cable.
Arm. Cable—14-2, 14-3, 14-4, 12-2, 12-3, 10-2, 8-1 (Insul.), 6-1, 4-1.
Flex. Conduit—⅜", ½".
Non-Met. Cable—14-2, 14-3, 12-2, 12-3, 10-2.
Serv. Ent. Cable—12-2, 12-3, 10-2, 8-2, 6-2, 4-2.
or any cable .310" to .650" diameter

No. 3302 fits non-metallic sheathed cables.
Non-Met. Cable—14-2, 14-3, 12-2, 12-3, 10-2.
Serv. Ent. Cable—12-2, 12-3, 10-2, 8-2, 6-2, 4-2.
or any non-metallic cable .310" to .650" dia.

No. 3303 fits non-metallic sheathed cables.
Non-Met. Cable—14-3, 12-3, 10-3, 8-2.
Serv. Ent. Cable—10-3, 8-3, 6-2, 6-3, 4-2, 2-2.
or any non-metallic cable .450" to .760" dia.

No. 3304 fits non-metallic sheathed cables.
Non-Met. Cable—6-2, 4-2.
Serv. Ent. Cable—8-3, 6-3, 4-3.
or any non-metallic cable .530" to 950" dia.

Cat. No.	Size In.	Inside Dia. Open	Inside Dia. Closed	Throat Bushed Diam.	K.O. Size	Std. Pkg.	Price Per 100
3301	⅜	.650	.310	.440	½	1000	$12.70
3302	⅜	.650	.310	.650	½	1000	14.40
3303	¾	.760	.450	.720	¾	100	36.50
3304	1	.950	.530	.970	1	25	58.75

T & B CONNECTORS
INCLINED SET SCREW CONNECTORS
Approved by Underwriters' Laboratories



The screw is on the right hand side making it easy to tighten. Locknuts furnished without charge.

For 14W2, 14W3, 12W2, 12W3, 10W2, 10W3 ⅜-inch SS and DS Conduit

Cat. No.	Size Inches	K.O. Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
240V	⅜	½	100	1000	6	$12.50

For 8W2, 8W3, 10W2L, 8W2L, 10W3L ½-inch SS and DS Conduit

241V	½	½	50	100	15	25.00

"V" denotes visible type, for bushed cables.

DUPLEX CONNECTOR
Approved by Underwriters' Laboratories

Designed to accommodate two armored cables in the same knockout saving labor, time and materials. The fitting has a single opening. Both cables are securely wedged in place by a single screw. Made of malleable iron, and plated with Tabolite Superior galvanizing.



Made to Hold—14W2, 14W3, 12W2

Cat. No.	Size In.	Size K.O.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
239	⅜	½	25	100	15	$29.00

No. 2020 CONNECTOR
Approved by Underwriters' Laboratories

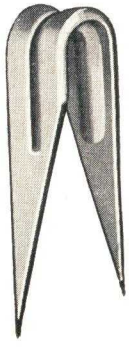
(Patented)



For non-metallic sheathed cable, 14W2, 14W3, 12W2, 12W3, 10W2, 10W3, also 3/32, ¼ and ⅜-inch flexible fibre tubing.

Cat. No.	Size In.	Size K.O.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
2020	⅜	½	100	1000	3	$10.60

BULL DOG STAPLES AND CLIPS



No. 1040 BULL DOG BX CABLE STAPLES

Price per 1000	
500 per box	$3.50
100 per box	4.50
2500 per carton	3.25
30000 per barrel	60.00
6000 per keg	12.00

No. 1080 BULL DOG CABLE CLIPS

Price per 1000	
1000 per carton	$3.50

BULLDOG CONDUIT OR CABLE HANGERS

BULLDOG PIPE OR CONDUIT HANGERS



The No. 470 hanger can be used to hang sizes of ½-inch, ¾-inch and 1-inch pipe to steel beams ⅜-inch thick, and is therefore adaptable for a wide range of work.

No. 471 hanger is used for hanging 1¼-inch and 1½-inch pipe.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
470	100	50	**$41.00**
471	100	70	**55.00**

NO. 480 BULLDOG ARMORED CABLE SUPPORT

Cheapest and best method for installing armored cable in factories, garages or any building of steel construction.

Especially convenient for changing wiring on temporary or permanent jobs just because of the speed and ease with which these clamps can be moved.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
480	100	18	**$20.00**

APPLETON CONDUIT FITTINGS

Cadmium Finish



E-Z-IN ARMORED CABLE STAPLES

Will take Nos. 14W2, 14W3, 12W2, 12W3, 10W2, and 10W3 armored cable. Plain finish only.

Cat. No.	Lgth. In.	Quantity Lots	Wt. Lbs. Per 5000	Price Schedule
8064	1⅛	‡‡	54	"CF"
8065	1⅜	‡‡	65	"CF"

‡‡30,000, 10,000, 5,000.

CABLE CLIP

For Armored Cable, Non-Metallic Sheathed Cable and "CNX" Cable

Made of terne plate steel, which has superior rust-resisting qualities. The little impressions firmly hold the cable in place without injury and the spur anchors the clip in place.

Fastening hole in Clip, $\frac{9}{16}$-inch in diameter.



Cat. No.	Fits Cable	Price Schedule
8066	14W2, 12W2, 10W2, 14W3, 12W3	"CF"

Average, 110 Clips to a pound. Standard package, 1000; carton quantity, 500. Weight per 1,000, 9 lbs.

ONE-SCREW CLAMP



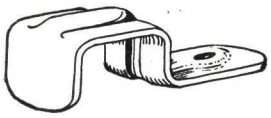
For ¼-inch pipe and ⅜-inch armored conductor.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
7145	¼	500	9	"CF"

APPLETON CONDUIT FITTINGS

Cadmium Finish

ONE-HOLE STRAP FOR NON-METALLIC SHEATHED CABLE



Made of lead-coated, rust-resisting Terne plate steel. More durable, yet lighter in weight.

Cat. No.	Fits Cable	Carton	Price Schedule
7146	14W2, 12W2, 10W2.....	*	"CF"

TWO-HOLE STRAP FOR NON-METALLIC SHEATHED CABLE

Made of steel.



Cat. No.	Fits Cable	Carton	Price Schedule
†**8067**	14W2, 12W2, 10W2.....	*	"CF"

*Packed in 5, 10 or 25 lb. cartons, or Bulk in 50 lb. bags.

†Average, 77 straps to a pound.



ONE-SCREW MALLEABLE CLAMPS

For Rigid Conduit (Heavy-Wall)

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
17147	⅛	100	100	2	"CF"
17148	¼	100	100	3	"CF"
17149	⅜	100	100	3	"CF"
17150	½	100	100	11	"CF"
17151	¾	100	100	13	"CF"
17152	1	100	100	21	"CF"
17153	1¼	25	50	17	"CF"
17154	1½	25	50	19	"CF"
17155	2	10	25	16	"CF"
17156	2½	10	25	29	"CF"
17157	3	10	25	43	"CF"
17158	3½	5	10	24	"CF"
17159	4	5	10	29	"CF"

CLAMP BACKS FOR ONE-SCREW CLAMPS

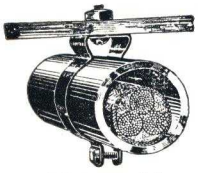
For Rigid Conduit (Heavy-Wall) and Electrical Metallic Tubing

Clamp-Backs are used under pipe clamps to raise the conduit from surface and prevent moisture accumulation around pipe. Also allow conduits to run into hubs and knockouts of boxes in straight line.



Clamp Back Cat. No.	Will Take Clamp For Rigid Conduit	Will Take Clamp For E.M.T.	Carton	Std. Pkg.	Pkg. Wt. Lbs.	Price Schedule
27148	17148, 17149	171T49	100	100	6	"CF"
27150	17150	171T50, 171T51	100	100	10	"CF"
27151	17151	171T52	100	100	50	"CF"
27152	17152	171T53	100	100	15	"CF"
27153	17153	171T54	25	50	12	"CF"
27154	17154	171T55	25	50	14	"CF"
27155	17155	.....	10	25	10	"CF"
27156	17156	.....	10	25	12	"CF"
27157	17157	.....	10	25	20	"CF"
27158	17158	.....	5	10	....	"CF"
27159	17159	.....	5	10	....	"CF"

MINERALLAC HANGERS
FOR CONDUIT AND CABLE



These hangers are made of Cadmium-plated steel or Everdur metal, and are much stronger than cast iron hangers for the same purpose. They are easily and quickly put in place, so open wiring, conduit and cable may be run with greater rapidity and be more compactly arranged than by the use of other hangers.

These hangers have been approved by the Underwriters' Laboratories for use on circuits up to 300 volts when mounted directly on the surface wired over. For voltages from 300 to 550 volts these hangers must be installed with spacers under the base of the hanger or mounted on metal racks or brackets so as to hold the conductors at least one inch from the surface wired over. For voltages above 550 volts the hangers should be used with an appropriate insulating bushing having necessary dielectric strength, the hangers being mounted on metal racks or brackets to hold the conductors far enough from the surface wired over to preserve the required electrical clearance.

Steel Minerallac Hangers

Cat. No.	Conduit Size Rigid	Conduit Size Thin Wall	O.D. Conduit Rigid	O.D. Conduit Thin Wall	Opening Inches Min.	Opening Inches Max.	Wt. Lbs. Std. Pkg.	Price Per 100
0	⅜, ½	½	.675 / .840	.706	⅝	27/32	5	$3.90
1	¾	¾	1.050	.922	13/16	1 1/16	6½	4.30
2	1	1	1.315	1.163	1 1/16	1 11/32	8	5.70
2½	-----	1¼	-----	1.503	1 3/32	1½	8¾	6.00
3	1¼	1½	1.660	1.738	1½	1 11/16	10	6.20
4	1½	-----	1.900	-----	1 11/16	1 31/32	16	7.70
5	2	2	2.375	2.195	2 3/32	2 3/32	11¾	8.30
6	2½	-----	2.875	-----	2 11/16	3	13¼	9.20

Everdur Minerallac Hangers

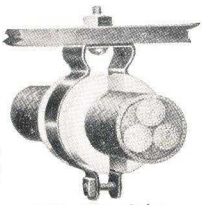
0	⅜, ½	½	.675 / .864	.706	⅝	27/32	5¼	8.90
1	¾	¾	1.050	.922	13/16	1 1/16	7¼	10.90
2	1	1	1.315	1.163	1 1/16	1 11/32	8¾	15.60
2½	-----	1¼	-----	1.503	1 3/32	1½	9½	16.30
3	1¼	1½	1.660	1.738	1½	1 11/32	11	17.55
4	1½	-----	1.900	-----	1 11/32	1 31/32	17¾	24.95
5	2	2	2.375	2.195	2 7/32	2 15/32	12½	36.60
6	2½	-----	2.875	-----	2 11/16	3	14¾	44.50

Prices do not include stove bolts.

PORCELAIN BUSHINGS

All styles of these bushings for high voltage work, properly designed to get necessary dielectric and mechanical strength can be furnished.

Porcelain bushings are for use with Minerallac Hanger of the same catalog number.



With Porcelain Bushing

Cat. No.	Opening Inches Min.	Opening Inches Max.	Wt. Lbs. Std. Pkg.	Price Per 100
1	5/16	½	8	$11.50
2	⅝	27/32	9½	12.65
3	⅞	1 1/16	15	18.00
4	1⅛	1 13/16	22	20.25
5	1 11/32	1 19/32	49	25.30
6	1 13/16	2⅛	60	27.60

MINERALLAC JIFFY CLIP



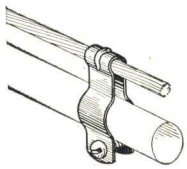
Made in Everdur and Cadmium-plated steel to meet the demand for a substantial clamp for hanging pipe, conduit and lead covered cables. With this clip only one screw or bolt is required to hold the pipe, conduit or cable and clip firmly in place. It is made to afford great strength without being heavy or bulky, by having ribs drawn in the clip. A round boss is also raised on the clip, through which is a hole for the screw or bolt. This boss serves the purpose of a lock washer to prevent the clip from working loose.

By use of this clip the labor as well as the clip cost is greatly reduced and at the same time a very neat and substantial job is possible. Made for various sizes of conduit and pipe as specified.

Cat. No.	Size, In. Rigid	Size, In. Thin Wall	I.D. Jiffy Clip Rigid	I.D. Jiffy Clip Thin Wall	Std. Pkg.	Appr. Lb. Std. Pkg.	Price Steel	Per 100 Everdur
105	-----	-----	.250	-----	500	3½	$0.80	$2.55
110	-----	-----	.312	-----	500	3½	.90	2.65
115	-----	-----	.375	-----	500	6¾	1.05	2.75
120	⅛	-----	.405	-----	500	7	1.15	2.95
125	¼	-----	.540	-----	500	8¼	1.25	3.45
130	⅜	½	.675	.706	100	3¼	1.50	5.45
140	½	-----	.840	-----	100	4¼	1.60	6.90
145	-----	¾	-----	.922	100	4½	2.00	7.90
150	¾	-----	1.050	-----	100	5	2.30	8.90
155	-----	1	-----	1.165	100	5¼	2.80	11.90
160	1	-----	1.315	-----	100	9	3.40	14.80
170	1¼	-----	1.660	-----	100	13½	4.50	19.80

Shipment in standard package only.

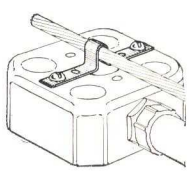
MINERALLAC MESSENGER HANGER
FOR MESSENGER CABLE INSTALLATIONS



These strong, durable hangers, designed for use on messenger cable installations, are made of cadmium plated steel or Everdur metal. They are easily and quickly installed. The top loop of the hanger grips the messenger cable sufficiently to permit the conduit to be put in place without falling off. The design and construction of these hangers save time, material and installation costs. Standard package, 100.

Cat. No.	Messenger Size	Conduit Size Rigid	Conduit Size Thin Wall	Wt. Lb. Std. Pkg. Steel	Wt. Lb. Std. Pkg. Everdur	Price Per 100 Plated Steel	Price Per 100 Everdur
M-0	⅜	⅜ & ½	½	5½	6	$4.00	$9.00
M-1	⅜	¾	¾	7¼	8	4.45	9.45
M-2	⅜	1	1	9¼	10	5.90	15.50

MINERALLAC MESSENGER STRAP
FOR CONDUIT BOXES

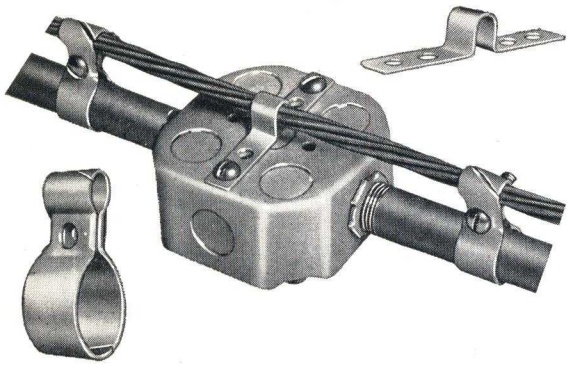


This strap, made of cadmium plated steel or Everdur metal, is designed for messenger cable installation and to be used in conjunction with the Minerallac messenger hanger. Fits all standard outlet boxes and ⅜-inch messenger cable.

Size Inch	Quantity per Box	Approx. Wt. per Box, Lbs.	Price Per 100 Steel	Price Per 100 Everdur
⅜	100	3¼	$3.00	$6.30

"TBF" INDUSTRIAL WIRING DEVICES

"TBF" CONDUIT AND BOX MESSENGER HANGERS



The "TBF" Messenger hanger has a decided advantage in installation over all other types. The construction is very rigid, being stamped from cadmium-plated cold drawn steel. Both sections are identical, relieving confusion in assembly. The assembly to the messenger and conduit is very easy, as the two halves are put together loosely with a bolt and then twisted together into place over the conduit and messenger.

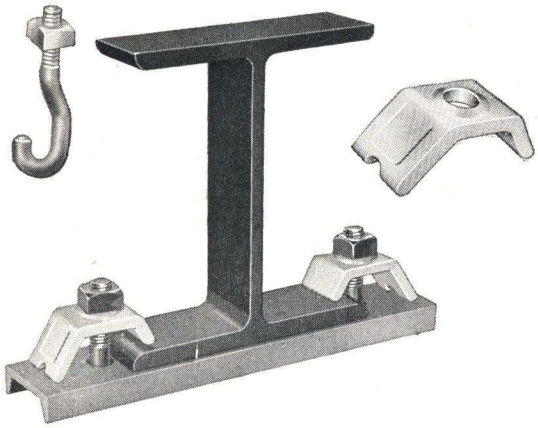
Conduit Size	Pkg. Prs.	Thinwall Cat. No.	Thinwall Pkg. Wt.	Thinwall Price Per 100	Rigid Cat. No.	Rigid Pkg. Wt.	Rigid Price Per 100
½	100	**TW 500**	6	**$10.80**	**CH 500**	6¼	**$10.80**
¾	100	**TW 750**	6¼	**10.80**	**CH 750**	7	**12.00**
1	100	**TW1000**	7	**12.00**	**CH1000**	8	**13.20**

Conduit Box Hanger

The "TBF" Conduit Box hanger is stamped from cadmium-galvanized cold drawn steel. It is self-aligning and the drillings are standard with all 4-inch outlet boxes.

Cat. No.	Standard Package	Wt. Lbs. Std. Pkg.	Price Per 100
B.H. 340	100	3¼	**$7.20**

"TBF" BEAM CLAMP

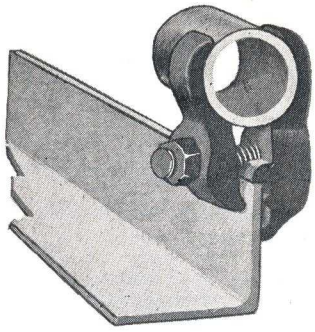


The "TBF" Beam clamp affords a simple, yet positive means of attaching channel conduit hangers to steel beams without the necessity of drilling the beam. Designed for the hanging of pull boxes from the steelwork and the mounting of pull and panel boxes on uprights.

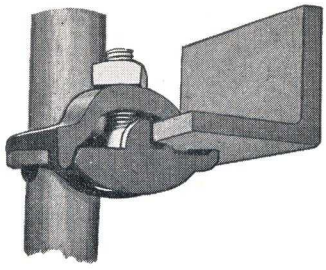
Cat. No.	Description	Std. Pkg.	Pkg. Wt.	Price Per 100
B.C. 500	"TBF" Beam Clamp....	25	6	**$24.00**
B.C. 375	"TBF" Offset "J" Bolt	25	4	**12.00**

KORNS CONDUIT SUPPORTS

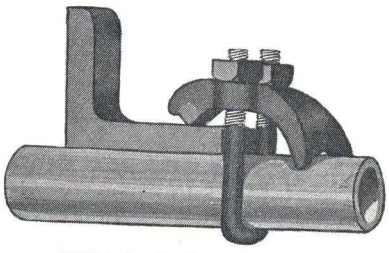
The pipe or conduit supports are especially designed malleable iron fixtures with a piece of tempered tool steel in one end so arranged that sharp edge of steel is forced into the structural steel member to which it is attached. Pipe or conduit can be easily and securely attached to the steel frame work of buildings without drilling holes.



Parallel Conduit Supports



Edge Type Conduit Supports



Right Angle Conduit Supports

No drilling holes. Avoid loose and sagging pipe work. Eliminate the necessity of designing and making forgings, hook bolt straps and other special rigging. For either permanent or temporary work.

LIST PRICE CONDUIT SUPPORTS EITHER TYPE

Standard Pipe Size	List Price Per 100	Standard Pipe Size	List Price Per 100
⅜-inch	**$22.00**	2 -inch	**$46.00**
½-inch	**27.00**	2½-inch	**59.00**
¾-inch	**28.00**	3 -inch	**72.00**
1 -inch	**30.00**	3½-inch	**88.00**
1¼-inch	**34.00**	4 -inch	**100.00**
1½-inch	**39.00**		

APPLETON GROUND FITTINGS

For Grounding Service Wire and Conduit System

Cadmium Finish

TYPE GCH FITTING

For No. 8 or No. 6 Bare Armored Ground Conductor



The type GCH ground fitting is made with adjustable top clamp to accommodate No. 8 or No. 6 Bare Armored Ground conductor, and for grounding to ½, ¾ or 1-inch water pipe or 1-inch ground rod.

Cat. No.	Size Bare Armored Ground Wire	Size of Water Pipe Inches	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Prcie Schedule
9445	8 or 6	½, ¾, 1	5	25	10	**"GF"**

TYPE GCWC GROUND FITTING

Type GCWC has deck with a hole drilled to accommodate ground wire. The screw, when tightened, wedges the wire into a cup in the center of fitting, making a good bond and positive grip. Adapted for No. 8, 6 or 4 Bare or Insulated Copper Wire.



Cat. No.	Water Pipe	Ground Rod	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Schedule
9489	½, ¾, 1"	1"	5	25	11	**"GF"**

TYPE GCAR ADJUSTABLE GROUND FITTING



This is a very popular ground fitting as it is of the Swivel type and is adjustable. Adapted for No. 8, 6 or 4 B&S Armored ground wire.

Cat. No.	Water Pipe	Ground Rod	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Schedule
9448	½, ¾, 1"	1"	5	25	15	**"GF"**

TYPE GCP SOLDERLESS FITTING

This malleable clamp will take wires No. 8, 6 or 4 either solid or stranded. The wire fastening device consists of a ⅜-inch bolt with a ¼-inch hole through it. In connecting the wire, put the end of the wire through the hole in the bolt, then tighten the nut and the bolt will clamp the wire.



Cat. No.	Water Pipe	Ground Rod	Carton	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Schedule
9491	½, ¾, 1"	1"	5	25	8	**"GF"**

TYPE GCNS NON-SWIVEL GROUND FITTING



Non-swivel type, with "V" shaped clamp fits Nos. 8, 6 or 4 B&S Armored Ground Wire and takes ½ to 1-inch Water Pipe or 1-inch Ground Rod. May also be used with Nos. 8, 6 or 4 Bare or Insulated Copper Wire.

Cat. No.	Size Grounding — Water Pipe	Size Grounding — Ground Rod	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Schedule
9493	½, ¾, 1"	1"	5	25	7½	**"GF"**

APPLETON GROUND FITTINGS

For Grounding Service Wire and Conduit System

Cadmium Finish

TYPE GCIC WITH TITE-GRIP CONTACTS



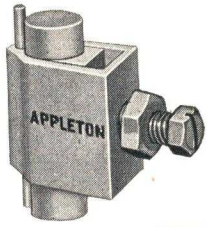
For 8, 6 or 4 Bare or Insulated Copper Wire. Furnished with Tite-grip contacts and will not injure the copper ground wire. Has a heavy screw through the center of the clamping member that forms a positive contact when tightened.

Cat. No.	Water Pipe	Ground Rod	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Schedule
9446	½, ¾, 1"	1"	5	25	13	**"GF"**

TYPE GCRC GROUND ROD FITTING

For Bare or Insulated Copper Wire. This ground fitting is especially designed for ground rods. Makes a very neat installation and better bond.

Ground wire is wedged against the rod by tightening the screw and is permanently set by running down the locknut.



Cat. No.	Fits Ground Rod	Takes Wire B&S	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Schedule
9447	½, ⅜"	8, 6 or 4	5	25	3½	**"GF"**

TYPE GCH FITTING FOR RIGID CONDUIT



With Brass Washer

This fitting is equipped with flat washer. Rigid clamp jaws hold securely to water pipe.

Cat. No.	Conduit Ground Inches	Size Grounding — Water Pipe	Size Grounding — Ground Rod	Carton	Std. Pkg.	Wt.Lbs. Std. Pkg.	Price Schedule
9402	½	½, ¾, 1"	1"	5	25	10	**"GF"**

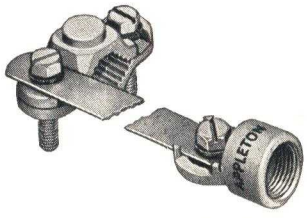
TYPE FGF FLEXIBLE GROUND FITTING

Has an 8-inch flexible copper strip that can be bent, twisted or turned into any position. Very desirable when the water pipe or ground rod is not easily accessible. If the ground conduit should by chance be a little too long or too short, the flexible strap can be formed to meet the conduit. Furnished with the popular Appleton Vise-grip clamp.



Cat. No.	Ground Inches	Water Pipe Inches	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Schedule
9481	½	½, ¾ or 1	5	25	18	**"GF"**

TYPE GSFF FLEXIBLE GROUND FITTING

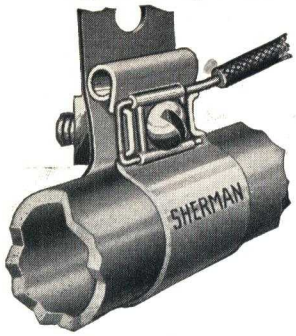


Furnished with "V" shaped clamp. Fits any ½-inch Ground Conduit and takes ½ to 1-inch Ground Rod — solderless type. Can be bent, twisted or turned into any position; adjustable.

Cat. No.	Conduit Ground Inches	Size of Water Pipe Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Schedule
9494	½	½, ¾, 1	5	25	22	**"GF"**

SHERMAN GROUND CLAMPS

Approved by Underwriters' Laboratories



SOLDERLESS TYPE

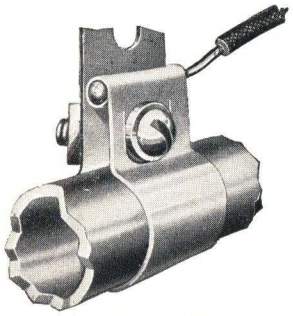
For general grounding or bonding of electrical conductors. Heavy copper strap. Easy to apply. Can be used as solder connection by placing up to No. 3 wire in rolled portion. Takes up to No. 8 wire for solderless connection.

Patent 1241898

Part No.	Pipe Size	Carton Qty.	Std. Pkg. Qty.	Wt. Lbs. Per 1000
1 SL	⅜-1	100	1000	80
2 SL	⅜-2	100	1000	130
3 SL	⅜-3	50	500	170
4 SL	⅜-4	25	250	200

SOLDER TYPE

For general grounding or bonding of electrical conductors. Heavy pure copper strap, easy to apply. Can be used with or without soldering, but approved for use with soldering only. Bolt head will not tear out of strap. Wire, not exceeding No. 3 AWG solid in size, can be clamped in roll portion before soldering.



Patent 1241898

Part No.	Pipe Size	Carton Qty.	Std. Pkg. Qty.	Wt. Lbs. Per 1000
1	⅜-1	100	1000	80
2	⅜-2	100	1000	130
3	⅜-3	50	500	160
4	⅜-4	25	250	190

LIGHT GROUND CLAMPS

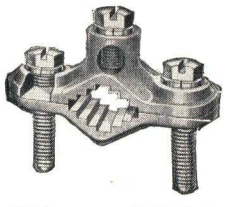
(Not Approved)



The design and construction are exactly the same as the solder type ground clamps, the only difference being in thickness of copper, which is lighter than required for approved clamps.

Part No.	Pipe Size	Carton Qty.	Std. Pkg. Qty.	Wt. Lbs. Per 1000
101	⅜-1	100	1000	50
102	⅜-2	100	1000	70
103	⅜-3	50	500	90

HEAVY DUTY CAST GROUND CLAMP



For copper water pipe connections. Fits ¼ to ¾-inch pipe as well as ½ to 1-inch diameter ground rods of any shape or material. Body of cast copper alloy, no loose parts to handle. Contact direct between ground wire and rod and pipe.

Part No.	Rod Size Inches	Carton Qty.	Std. Pkg. Qty.	Wt. Lbs. Per 1000
GF13B	½ to 1	10	100	260

RACO OUTLET BOXES AND COVERS

For Use With Conduit

RACO OUTLET BOXES



FO-¾



FOD-1

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
FO-½	4 11/16″ Sq., 1½″ deep—½″ K.O.	50	116
FO-¾	4 11/16″ Sq., 1½″ deep—¾″ K.O.	50	116
FOD-½	4 11/16″ Sq., 2⅛″ deep—½″ K.O.	25	128
FOD-¾	4 11/16″ Sq., 2⅛″ deep—¾″ K.O.	25	128
FOD-1	4 11/16″ Sq., 2⅛″ deep—1″ K.O.	25	128

RACO EXTENSION RINGS



AOX-½



BOX-½



BOXD-½

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
AOX-½	3¼″ Oct., 1½″ deep–½″ K.O.	100	40
BOX-½	4″ Oct., 1½″ deep—½″ K.O.	50	48
BOX-¾	4″ Oct., 1½″ deep—¾″ K.O.	50	48
BOXD-½	4″ Oct., 2⅛″ deep—½″ K.O.	50	60
BOXD-¾	4″ Oct., 2⅛″ deep—¾″ K.O.	50	60
BOXD-1	4″ Oct., 2½″ deep—1″ K.O...	50	60



FOXD-1



FOX-¾



COX-½

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
COX-½	4″ Sq., 1½″ deep—½″ K.O...	50	60
COX-¾	4″ Sq., 1½″ deep—¾″ K.O...	50	60
FOX-½	4 11/16″ Sq., 1½″ deep—½″ K.O.	25	84
FOX-¾	4 11/16″ Sq., 1½″ deep—¾″ K.O.	25	84
FOXD-½	4 11/16″ Sq., 2⅛″ deep—½″ K.O.	25	96
FOXD-¾	4 11/16″ Sq., 2⅛″ deep—¾″ K.O.	25	96
FOXD-1	4 11/16″ Sq., 2⅛″ deep—1″ K.O...	25	96

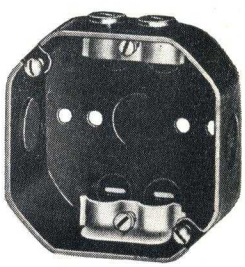
RACO OUTLET BOXES

For Loom and Non-Metallic Cable

With LX Clamps

Cat. No.	Size	Std. Pkg.	Wt. Lbs. Per 100
DO-21†	3½″	50	64
DO-21N‡	3½″	50	60
DO-16N‡	4″	50	70

†With stud. ‡No stud.



RACO OUTLET BOXES AND COVERS

RACO OUTLET BOX COVERS

For Use With Conduit



FO-14



FO-11

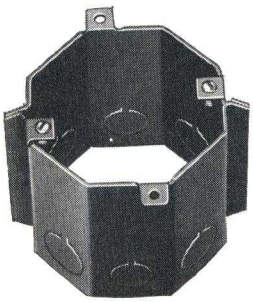


FO-17

Covers for 4 11/16-Inch Square Boxes

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
FO-5	Flat Blank	25	52
FO-7	Flat, ½-inch knockout	25	52
FO-1	Raised Blank	25	60
FO-8	Raised, ½-inch knockout	25	59
FO-2	Raised, Bushed	25	58
FO-4	Ring, no ears	25	45
FO-11	Ring, with ears	25	48
FO-15	For One Device, ¼-in. raised	25	40
FO-14	For One Device, ½-in. raised	25	48
FO-13	For One Device, ¾-in. raised	25	53
FO-17	For Two Devices, ¾-in. raised	25	43

RACO CONCRETE RINGS AND PLATES



No. 830



No. 876
Back Plate

Raco Concrete Rings

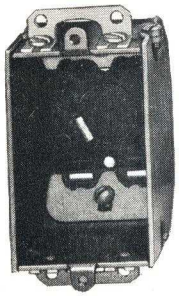
Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
815	1½ inches deep	50	50
820	2 inches deep	50	65
825	2½ inches deep	50	80
830	3 inches deep	50	95
835	3½ inches deep	20	110
840	4 inches deep	20	125

Raco Back Plates

875	Back Plate, no stud	50	36
876	Back Plate, with ⅜-inch stud	50	44
877	Back Plate, with ½-inch stud	50	52

RACO SWITCH BOXES

For Loom and Non-Metallic Cable



BLC

"PRI-OUT" SWITCH BOXES

With Beveled Corners

Size box, 3 x 2 x 2¼ inches deep.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
BL	No Clamp	50	62
BLBN	With Bracket	25	78
BLC	With L Clamps	50	66

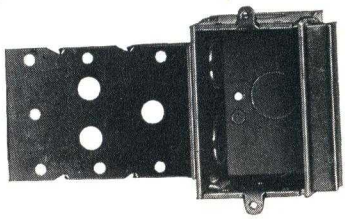
RACO OUTLET AND SWITCH BOXES

For Use With Conduit

RACO CONDUIT SWITCH BOXES



RS



RMB

Cat. No.	Size Box Length	Width	Depth	Std. Pkg.	Wt. Lbs. Std. Pkg.
RS	3″	2″	2″	50	62
RM	3″	2″	2½″	50	72
RD	3″	2″	2¾″	50	78
200	4″	2″	2⅛″	75	50

"Face-Mount" Bracket Boxes

RSBN	3″	2″	2″	25	78
RMBN	3″	2″	2½″	25	88
RDBN	3″	2″	2¾″	25	94
RMB†	3″	2″	2½″	25	92

†With lath support.



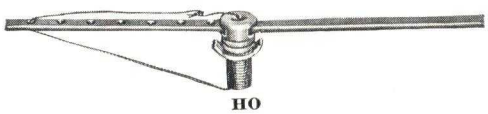
RACO PANS

Co. No.	Size Box Dia.	Dpth.	Std. Pkg.	Wt. Lbs. Per 100
EO-2	4″	½″	100	35
EO-9	4″	¾″	100	48

RACO BAR HANGERS



HS



HO

Cat. No.	Description	Pkg. Std.	Per 100 Wt. Lbs
HB-	Straight, 19½″ long	100	53
HB–24	Straight, 24″ long	100	68
HB–26	Straight, 26″ long	100	75
HS	Shallow, 19½″ long	50	60
HS–24	Shallow, 24″ long	50	74
HS–26	Shallow, 26″ long	50	82
HD	Deep, 19½″ long	50	64
HD–24	Deep, 24″ long	50	78
HD–26	Deep, 26″ long	50	82
HO	Old Work	100	38

APPLETON OUTLET BOXES AND COVERS

Black Enamel—Galvanized

3¼-INCH OCTAGONAL BOXES



No. 3-O-½ box, 3¼ inches octagonal, 1½ inches deep, with one ½-inch knockout in each side and one in bottom.

No. 3-O-¾ box, 3¼ inches octagonal, 1½ inches deep, with one ¾-inch knockout in each side and one in bottom.



No. 3-O-Special box, 3¼ inches octagonal, 1½ inches deep. Has two ½-inch and two ¾-inch knockouts in sides, and one ½-inch knockout in center of bottom.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
3-O-½	24151-½	100	47	**"OB"**
3-O-¾	24151-¾	100	47	**"OB"**
3-O-Spl.	24151-Spl.	100	47	**"OB"**

COVERS FOR 3¼-INCH OCTAGONAL BOXES



No. 8301. Steel cover, raised, closed.

8301	24-C-2	100	23	**"OB"**

No. 8301-A. Steel cover, flat.



8301-A	24-C-1	100	20	**"OB"**



No. 8302-A. Steel cover, raised, with ⅜-inch steel bushing.

8302-A	24-C-12	100	23	**"OB"**

No. 8303. Steel cover with cord grip.



8303	.....	100	18	**"OB"**



No. 8311. Steel cover, raised, with 1½-inch hole, for sign receptacles.

8311	{24-C-35} {24-C-36}	100	19	**"OB"**

No. 8317. Steel cover, flat, spider furnished complete with bolts.



8317	24-C-28	100	18	**"OB"**



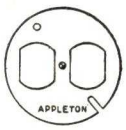
No. 8320. Steel cover, flat, with ½-inch knockout in center.

8320	24-C-6	100	21	**"OB"**

No. 8321. Steel cover, raised, with ½-inch knockout in center.



8321	24-C-7	100	23	**"OB"**



With Openings For Duplex Receptacle

Cat. No.	Diam. In.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8314-LR	3¼	100	15	**"OB"**

APPLETON OUTLET BOXES AND COVERS

Black Enamel—Galvanized

4-INCH OCTAGONAL BOXES



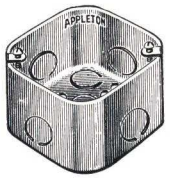
No. 4-O-½ box, 1½ inches deep, ½-inch knockouts. Furnished with four knockouts in sides and five knockouts in bottom.

No. 4-O-¾ box, 1½ inches deep. Furnished with four ¾-inch knockouts in sides, three ½-inch and two ¾-inch knockouts in bottom.



No. 4-O-Special, 1½ inches deep. Furnished with two ½-inch and two ¾-inch knockouts in sides, three ½-inch and two ¾-inch knockouts in bottom.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
4-O-½	54151-½	100	65	**"OB"**
4-O-¾	54151-¾	100	65	**"OB"**
4-O-Spl.	54151-Spl.	100	65	**"OB"**



No. 4-OD-½ box, 2⅛ inches deep, ½-inch knockouts. Furnished with four knockouts in sides and five knockouts in bottom.

No. 4-OD-¾ box, 2⅛ inches deep. Four ¾-inch knockouts in sides and two ¾-inch and three ½-inch knockouts in bottom.

No. 4-OD-1 box, 2⅛ inches deep. Four 1-inch knockouts in sides and three ½-inch and two ¾-inch knockouts in bottom.

No. 4-OD-Special box, 2⅛ inches deep. Furnished with two ½-inch and two ¾-inch knockouts in sides, three ½-inch and two ¾-inch knockouts in bottom.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
4-OD-½	54171	50	84	**"OB"**
4-OD-¾	54171	50	84	**"OB"**
4-OD-1	54171	50	84	**"OB"**
4-OD-Spl.	54171-Spl.	50	84	**"OB"**

COVERS FOR 4-INCH OCTAGONAL BOXES

No. 8400. Steel cover, raised, open, ⅝-inch high.



Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8400	54-C-48	100	24	**"OB"**



No. 8401. Steel cover, raised, closed, ⅝-inch high.

8401	54-C-2	100	36	**"OB"**

No. 8402-A. Steel cover, raised, ⅝-inch high, with ⅜-inch drawn steel bushing.



8402-A	54-C-12	100	37	**"OB"**



No. 8403. Steel cover, flat.

8403	54-C-1	100	28	**"OB"**

No. 8404. Steel cover, flat, spider with bolts.



8404	54-C-28	100	27	**"OB"**

APPLETON OUTLET BOXES AND COVERS

Black Enamel—Galvanized

COVERS FOR 4-INCH OCTAGONAL BOXES



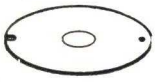
No. 8407. Steel cover, raised, with 1 11/32-inch hole for Federal receptacles.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8407	54-C-31	100	26	"OB"



No. 8409. Steel cover, raised, open, 5/8-inch deep, with ears drilled and tapped 2 23/32 inches on centers.
No. 8409-D same except 1¼ inches deep.

8409	54-C-3	100	25	"OB"
8409-D	.....	100	38	"OB"



No. 8413. Steel cover, flat, with ½-inch knockout in center.

8413	54-C-6	100	28	"OB"



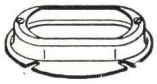
No. 8414. Steel cover, raised, 5/8-inch high, with ½-inch knockout in center.

8414	54-C-7	100	35	"OB"



No. 8424. Steel cover, raised, with 1½-inch hole for sign receptacles.

8424	{54-C-35} {54-C-36}	100	26	"OB"



No. 8434. Steel cover, raised, 5/8-inch high, for single flush device.

8434	54-C-14	100	27	"OB"



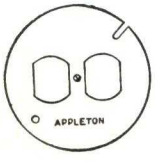
No. 8439. Steel cover, raised, for use with combination hickey and swivel fixture joints.

8439	.....	100	28	"OB"



No. 8441. Steel cover, flat, with cord grip.

8441	.....	100	36	"OB"



With Opening for Single Receptacle

Cat. No.	Diam. In.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8419-LR	4	100	27	"OB"

With Openings for Duplex Receptacle

8420-LR	4	100	24	"OB"

Black enamel and galvanized are the standard finishes for outlet boxes and covers. Unless otherwise specified, black enamel will be shipped.

APPLETON OUTLET BOXES AND COVERS

Baked Enamel—Galvanized

4-INCH SQUARE OUTLET BOXES



4-S Box **4-SD Box** **4-S-Special Box**

No. 4-S-½ box, furnished with ten ½-inch knockouts in sides, five in bottom.

No. 4-S-¾ box, furnished with two ¾-inch knockouts in each side; three ½-inch and two ¾-inch knockouts in bottom.

No. 4-S-Special box, furnished with two ½-inch and one ¾-inch knockouts in each side; three ½-inch and two ¾-inch knockouts in bottom.

No. 4-SL-½ box, furnished with ten ½-inch knockouts in sides, five in bottom.

No. 4-SD-½ box, furnished with eight ½-inch knockouts in sides, five in bottom.

No. 4-SD-¾ box, furnished with eight ¾-inch knockouts in sides, three ½-inch, and two ¾-inch knockouts in bottom.

No. 4-SD-1 box, furnished with eight 1-inch knockouts in sides; three ½-inch and two ¾-inch knockouts in bottom.

Cat. No.	Universal Key No.	Size Box Sq.	Size Box Depth	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
4-S-½	52151-½	4	1½	50	92	"OB"
4-S-¾	52151-¾	4	1½	50	92	"OB"
4-S-Spl	52151-Spl	4	1½	50	92	"OB"
4-SL-½	52141-½	4	1¼	50	80	"OB"
4-SD-½	52171-½	4	2⅛	50	110	"OB"
4-SD-¾	52171-¾	4	2⅛	50	110	"OB"
4-SD-1	52171-1	4	2⅛	50	110	"OB"

COVERS FOR 4-INCH SQUARE BOXES



No. 8460. Steel cover, raised, open, 5/8-inch high.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8460	52-C-48	100	32	"OB"



No. 8461. Steel cover, raised 5/8-inch, open, with ears drilled 2 23/32 inches center to center.

8461	52-C-3	100	32	"OB"



No. 8461-D. Steel cover, raised, 1¼ inches deep, open, with ears drilled 2 23/32 inches center to center.

8461-D	.....	100	92	"OB"



No. 8462. Steel cover, raised, closed, 5/8-inch high.

8462	52-C-2	100	44	"OB"



No. 8463-A. Steel cover, raised, 5/8-inch high, with 3/8-inch drawn steel bushing.

8463-A	52-C-12	100	47	"OB"



No. 8465. Steel cover, blank.

8465	52-C-1	100	36	"OB"

APPLETON OUTLET BOXES AND COVERS

Black Enamel—Galvanized

COVERS FOR 4-INCH SQUARE BOXES



Nos. 8466 and 8466-A. Steel covers, raised, for single device. No. 8466, 1¼ inches high; No. 8466-A, 1 inch high.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8466	52-C-16	100	46	"OB"
8466-A	52-C-15	100	44	"OB"



Steel covers, raised, for single device. No. 8467, ⅞-inch high; No. 8468, ¾-inch high; No. 8468-C, ⅝-inch high.

8467	52-C-15-⅞"	100	42	"OB"
8468	52-C-14	100	36	"OB"
8468-C	52-C-14-⅝"	100	34	"OB"



Steel covers, raised, for single flush device. No. 8468-A, ½-inch high; No. 8468-B, ¼-inch high.

8468-A	52-C-13	100	32	"OB"
8468-B	52-C-62	100	28	"OB"

Steel cover, flat, for one single flush device.

8468-F	.....	100	24	"OB"



Steel covers, raised, for two flush devices. No. 8469, 1¼ inches high; No. 8469-A, 1 inch high.

8469	52-C-21	100	45	"OB"
8469-A	52-C-19	100	41	"OB"



Steel covers, raised, for two devices. No. 8470, ¾-in. high; No. 8470-C, ⅝-in. high; No. 8470-A, ½-in. high; No. 8470-B, ¼-in. high.

8470	52-C-18	100	31	"OB"
8470-C	52-C-18-⅝"	100	29	"OB"
8470-A	52-C-17	100	24	"OB"
8470-B	52-C-20	100	18	"OB"

Steel cover, flat, for two devices.

8470-F	.....	100	14	"OB"



No. 8472. Steel cover, raised, ⅝-inch high, with 1½-inch hole for ring receptacles.

8472	{52-C-35} {52-C-36}	100	43	"OB"



No. 8474, flat, with ½-inch knockout in center. No. 8474-A, raised, ½-inch knockout in center.

8474	52-C-6	100	37	"OB"
8474-A	52-C-7	100	44	"OB"



Steel cover, raised, ¼-inch, offset for single flush device at one side, other gang blank.

8475	52-C-10	100	13	"OB"



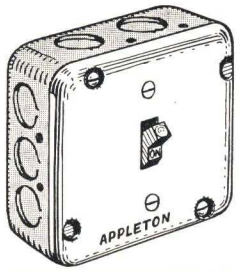
No. 8478, flat. Spider with bolts.

8478	52-C-28	100	36	"OB"

APPLETON OUTLET BOXES AND COVERS

Black Enameled—Galvanized

SURFACE COVERS FOR 4-INCH SQUARE BOXES



The surface covers for 4-inch square boxes as listed and illustrated below eliminate the use of regular switch covers and additional plates, thereby making a neater installation.

These covers are regularly supplied with four knockouts, two of which can be punched out for screws necessary to fasten these covers to 4-inch Square Outlet Boxes, regardless of how the boxes are installed.

Furnished in either ⅛-inch or ½-inch depth.

For One Toggle Switch



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8360	⅛	100	42	"OB"
8361	½	100	44	"OB"

For One Single Flush Receptacle



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8362	⅛	100	42	"OB"
8363	½	100	44	"OB"

For One Duplex Flush Receptacle



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8364	⅛	100	42	"OB"
8365	½	100	44	"OB"

For Two Toggle Switches



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8366	⅛	100	42	"OB"
8367	½	100	44	"OB"

For Two Single Flush Receptacles



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8368	⅛	100	42	"OB"
8369	½	100	44	"OB"

For Two Duplex Flush Receptacles



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8370	⅛	100	42	"OB"
8371	½	100	44	"OB"

For One Toggle Switch and One Single Flush Receptacle



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8372	⅛	100	42	"OB"
8373	½	100	44	"OB"

For One Toggle Switch and One Duplex Flush Receptacle



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8374	⅛	100	42	"OB"
8375	½	100	44	"OB"

With One-Hole Strap
For P&S-Despard, Bryant "IL" or Hubbell "LS" Wiring Devices.



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8376	⅛	50	42	"OB"

With Three-Hole Strap
For P&S-Despard, Bryant "IL" or Hubbell "LS" Wiring Devices.



Cat. No.	Depth Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
8378	⅛	50	42	"OB"

APPLETON CEILING BOXES

Black Enamel—Galvanized

4-INCH CEILING BOXES WITH KNOCKOUTS

For ½-Inch Conduit



No. 4-C. Box 4 inches in diameter, ½-inch deep, without ears. Five knockouts in bottom for ½-inch conduit.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
4-C-½	56112	100	39	**"OB"**

No. 4-CL. Box 4 inches in diameter, ½-inch deep, with ears. Five knockouts in bottom for ½-inch conduit.



Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
4-CL-½	56111	100	41	**"OB"**

3½-INCH COMBINATION BOXES

For Non-Metallic Sheathed Cable
1947 N.E.C. Code
and Non-Metallic Flexible Tubing



No. 510L. Box 3½ inches in diameter, ½-inch deep, with ears. Four knockouts in bottom for loom and three knockouts in bottom for ½-inch conduit.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
510-L	36115	100	32	**"OB"**

No. 510-LC. Box 3½ inches in diameter, ½-inch deep, with ears. Four knockouts in bottom for loom and three knockouts in bottom for ½-inch conduit. With 2 CL-9 clamps.



Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
510-LC	36115-C	100	36	**"OB"**



No. 511-LC. Box 3½ inches in diameter, ¾-inch deep, with ears. Four knockouts in bottom for loom and three knockouts in bottom for ½-inch conduit. With 2 CL-9 clamps.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
511-LC	36125-C	100	45	**"OB"**

No. 513-L. Box 3½ inches in diameter, 1½ inches deep, with ears. Four knockouts in bottom, four in sides for loom; three knockouts in bottom and four in sides for ½-inch conduit.



Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
513-L	24155	100	55	**"OB"**

APPLETON COMBINATION BOXES

Black Enamel—Galvanized

3½-INCH COMBINATION BOXES

For Non-Metallic Sheathed Cable
1947 N.E.C. Code
and Non-Metallic Flexible Tubing



No. 513-LC. Box 3½ inches in diameter, 1½ inches deep, with ears. Four knockouts in bottom, four in sides for loom, three knockouts in bottom and four in sides for ½-inch conduit. With 2 CL-9 clamps.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
513-LC	24155-C	100	57	**"OB"**

No. 521-L. Box 3½ inches in diameter, ½-inch deep, with ears. Eight knockouts in bottom for loom, one knockout in bottom for ½-inch conduit.



Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
521-L	36113	100	35	**"OB"**



No. 521-LC. Box 3½ inches in diameter, ½-inch deep, with ears. Eight knockouts in bottom for loom, one knockout in bottom for ½-inch conduit. With CL-9 clamps.

Cat. No.	Universal Key No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
521-LC	36113-C	100	36	**"OB"**

3½-INCH COMBINATION BOXES

For Flexible Steel Conduit and Armored Cable
1947 N.E.C. Code

No. 532-L. With two bushed CL-6 clamps in bottom and fixture stud. With ears. Galvanized finish only.



No. 532-L

Cat. No.	Diam. In.	Dpth. In.	Knockouts Loom	Knockouts Conduit	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
532-L	3½	¾	4	..	100	45	**"OB"**



No. 533-L

No. 533-L. With two bushed CL-6 clamps in bottom. With ears. Galvanized finish only.

Cat. No.	Diam. In.	Dpth. In.	Loom	Conduit	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
533-L	3½	¾	4	3	100	45	**"OB"**

APPLETON COMBINATION BOXES

Black Enamel—Galvanized

For Flexible Steel Conduit and Armored Cable 1947 N.E.C. Code

With Two-Way Knockout Closing Clamps One Screw May be Used for Bonding



No. 550-L



No. 550-LFS

No. 550-L. Ears tapped 8/32-inch on 2¾-inch centers. Fixture stem, nail holes and two CL-25 clamps. Without fixture stud. No. 550-LFS, same as No. 550-L except with ⅜-inch fixture stud.

Cat. No.	Dia. In.	Dpth. In.	Knockouts Loom	Knockouts Conduit	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
550-L	3½	1½	4	1—½"	100	61	"OB"
550-LFS	3½	1½	4	.....	100	60	"OB"



No. 551-L



No. 551-LFS

No. 551-L. Ears tapped 8/32-inch on 3½-inch centers. Fixture stem, nail holes and two CL-25 clamps. Without fixture stud. No. 551-LFS, same as No. 551-L except with ⅜-inch fixture stud.

Cat. No.	Dia. In.	Dpth. In.	Knockouts Loom	Knockouts Conduit	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
551-L	4	1½	4	3—½"	100	77	"OB"
551-LFS	4	1½	4	2—½"	100	81	"OB"

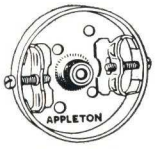
For Non-Metallic Sheathed Cable 1947 N.E.C. Code and Non-Metallic Flexible Tubing



No. 560-L

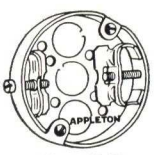


No. 561-L

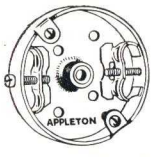


No. 562-L

Cat. No.	Dia.	Dpth.	⅜-in. Stud	Ear	Clamps (2)	Std. Pkg.	Wt. Per 100	Price Schedule
560-L	3½	1½	No	Yes	CL-26	100	65½	"OB"
561-L	4	1½	No	Yes	CL-26	100	76	"OB"
562-L	3½	½	Yes	No	CL-24	100	37	"OB"



No. 563-L

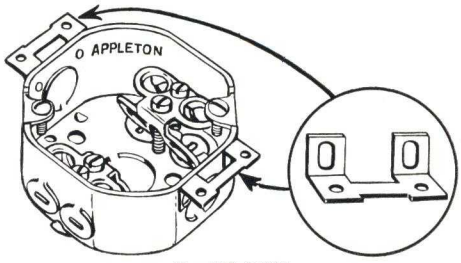


No. 564-L

Cat. No.	Dia.	Dpth.	⅜-in. Stud	Ear	Clamps (2)	Std. Pkg.	Wt. Per 100	Price Schedule
563-L	3½	¾	No	Yes	CL-24	100	45	"OB"
564-L	3½	¾	Yes	Yes	CL-24	100	47	"OB"

APPLETON COMBINATION BOXES

WITH SIDE MOUNTING EARS



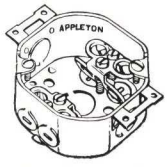
No. 550-LXE

These boxes meet the requirements of many territories where the installation of Outlet and Combination Boxes require furring strips at each ceiling outlet to support cut ends of the laths. These furring strips afford an ideal support for Outlet Boxes; therefore, boxes must have these mounting ears so they may be attached directly to the furring strips and thereby eliminate the additional expense of bar hangers.

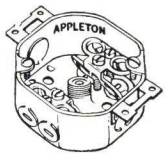
Appleton Combination Boxes with mounting ears will not tip or rock after installation and eliminate the possible hazard of cracked plaster.

All boxes have ears. No. 550-LFSXE furnished with ⅜-inch fixture stud.

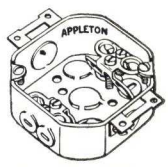
For Flexible Steel Conduit and Armored Cable 1947 N.E.C. Code



No. 550-LXE



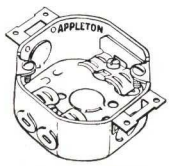
No. 550-LFSXE



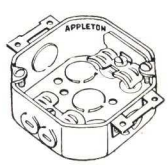
No. 551-LXE

Cat. No.	Dia. In.	Dpth. In.	Knockouts ⅜"	Knockouts Conduit	Clamps (two)	Wt. Lbs. Per 100	Price Schedule
550-LXE	3½	1½	4	1–½"	CL-25	61	"OB"
550-LFSXE	3½	1½	4	.....	CL-25	60	"OB"
551-LXE	4	1½	4	3–½"	CL-25	60	"OB"

For Non-Metallic Sheathed Cable 1947 N.E.C. Code and Non-Metallic Flexible Tubing



No. 560-LXE



No. 561-LXE

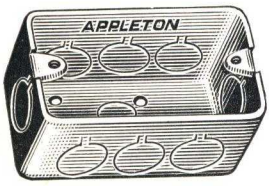
Cat. No.	Dia. In.	Dpth. In.	Knockouts ⅜"	Knockouts Conduit	Clamps (two)	Wt. Lbs. Per 100	Price Schedule
560-LXE	3½	1½	4	1–½"	CL-26	57	"OB"
561-LXE	4	1½	4	3–½"	CL-26	65	"OB"

Standard package, 100.

APPLETON UNIVERSAL CONDUIT BOXES AND COVERS

Galvanized Finish Only

UNIVERSAL CONDUIT BOXES



The Nos. 180, 181 and 184 boxes for ½-inch conduit have three knockouts in each side, one in each end and one in center of bottom.

The No. 181 box for ¾-inch conduit has two knockouts in each side, one in each end and one in center of bottom.

Cat. No.	Size Overall Lgth.	Wdth.	Dpth.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
180	4⅛	2⅜	1 3/16	100	60	"OB"
181	4⅛	2⅜	2 3/16	100	70	"OB"
184	4⅛	2⅜	1 9/16	100	56	"OB"

COVERS FOR UNIVERSAL CONDUIT BOXES

Steel cover, raised, blank.



Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
180-A	100	15	"OB"



Steel cover, flat, with ½-inch knockout in center.

Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
180-K	100	23	"OB"

Steel cover, raised, tumbler or toggle switches with square handle.



Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
180-T	100	15	"OB"



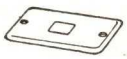
Steel cover, raised, for standard duplex receptacles.

Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
180-W	100	10	"OB"

Steel cover, raised, for flush plug receptacles.



Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
180-X	100	15	"OB"



Steel cover, raised, with 1-hole strap for P&S-Despard, Bryant "IL", or Hubbell "LS" wiring devices.

Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
180-Y	100	20	"OB"

Steel cover, raised, with 3-hole strap for P&S-Despard, Bryant "IL", or Hubbell "LS" wiring devices.



Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
180-Z†	100	20	"OB"

†No. 180-Z cover has three knockouts so that one, two or three devices may be used in a single-gang cover by removing knockouts to be utilized.

APPLETON HANDY BOXES AND COVERS

Galvanized Finish Only

NO. 4-SS BOX



No. 4-SS box. Furnished with three knockouts in each side, two in bottom and one in each end for ½-inch conduit.

Cat. No.	Dimensions, Inches Length	Width	Depth	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
4-SS	3¾	1½	1½	100	50	"OB"

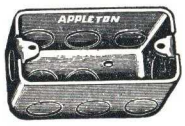
COVER FOR 4-SS BOX



Cat. No.	Style of Cover	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
2520	Steel Cover, Flat	20	16	"OB"

NOS. 4-CS, 4-SSL, 4-SSLD AND 4-SSLS BOXES

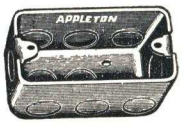
Knockouts for ½, ¾ and 1-Inch Rigid Conduit



No. 4-CS. Furnished with three knockouts in each side, one in each end and two in bottom, for ½-inch conduit. For ¾-inch conduit, two knockouts in each side, one in each end and two in bottom.

Cat. No.	Dimensions, Inches Length	Width	Depth	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
4-CS-½ 4-CS-¾	4	2⅛	1⅞	100	64	"OB"

No. 4-SSL. Furnished with three knockouts in each side, one in each end, and two in bottom, for ½-inch conduit. For ¾-inch conduit, two knockouts in each side, one in each end and two in bottom. For 1-inch conduit, two knockouts in each side, one in each end and one in center of bottom.



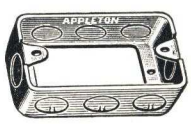
4-SSL Box

No. 4-SSLD. Furnished with three knockouts in each side, one in each end, and two in bottom for ½-inch conduit. For ¾-inch and 1-inch conduit, two knockouts in each side, one in each end and one in center of bottom.

No. 4-SSLS. Furnished with three knockouts in each side, one in each end and two in bottom for ½-inch conduit only.

Cat. No.	Dimensions, Inches Length	Width	Depth	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
4-SSL-½ 4-SSL-¾ 4-SSL-1	4	2⅛	2⅛	100	68	"OB"
4-SSLD-½ 4-SSLD-¾ 4-SSLD-1	4	2⅛	2½	50	97	"OB"
4-SSLS-½	4	2⅛	1½	100	66	"OB"

NO. 4-SSLE EXTENSION RING



Extension Ring furnished with eight ½-inch knockouts in sides and ends.

For Appleton Handy Boxes and Switch Boxes.

Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
4-SSLE-½	4	2⅛	1½	100	40	"OB"

APPLETON HANDY BOX COVERS

Galvanized Finish Only

COVERS FOR 4-INCH HANDY BOXES AND EXTENSION RING



No. 2540. Steel cover, raised.

Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
2540	100	15	**"OB"**

No. 2555. Steel cover, flat, with ½-inch knockout in center.



2555	100	23	**"OB"**



No. 2537. Steel cover, raised, for double push button switches.

2537	100	11	**"OB"**

No. 2539. Steel cover, raised, for flush plug receptacles (without lift cover).



2539	100	11	**"OB"**



No. 2510. Steel cover, raised, for standard duplex receptacles.

2510	100	11	**"OB"**

No. 2594. Steel cover, raised, for tumbler or toggle switches with square handle.



2594	100	14	**"OB"**



No. 2598. Steel cover, raised, with one-hole strap for P & S-Despard, Bryant "IL" and Hubbell "LS" wiring devices.

2598	100	15	**"OB"**

No. 2599. Steel cover, raised, with three-hole strap for P & S-Despard, Bryant "IL" and Hubbell "LS" wiring devices.

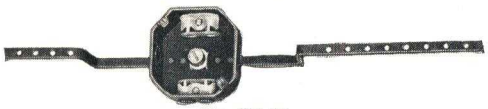


2599†	100	16	**"OB"**

†This cover has three knockouts so that one, two or three devices may be used in a single gang cover by removing knockouts to be utilized.

RACO SET-UP BOXES

RACO SET-UP BOXES



No. SU-21



No. SU-16-3

Cat. No.	Box	Clamps	Type Bar	Std. Pkg.	Wt. Lbs. Per 100
SU–21	DO–21–N	LX	Shallow	25	120
SU–16–3	DO–16N3	NM	Deep	25	136
SU–216–3	DO–16N3	NM	Shallow	25	132

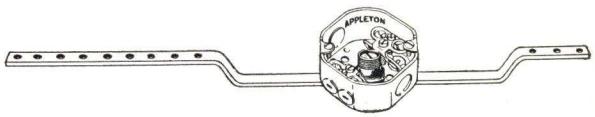
APPLETON BAR SETS

For Flexible Steel Conduit and Armored Cable
1947 N.E.C. Code



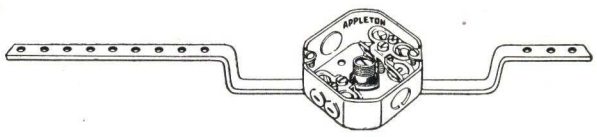
Straight Bar, Round Box with Ears;
Four Loom Knockouts, with Two CL-6 Clamps and Stud

Cat. No.	Size Box, Inches Diam.	Depth	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
BH-532-L	3½	¾	50	69	**"OB"**



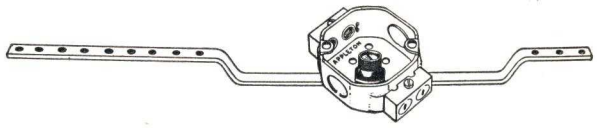
Shallow Bar, Octagonal Box with Ears;
Four Loom Knockouts, with Two CL-25 Two-Way Knockout Closing Clamps and Stud

Cat. No.	Size Box, Inches Diam.	Depth	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
BHS-550-L (No. 13)	3½	1½	50	133	**"OB"**



Four Loom Knockouts, Three ½-inch K.O., with Two CL-25 Two-Way Knockout Closing Clamps and Stud

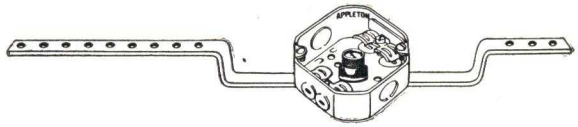
Cat. No.	Size Box, Inches Diam.	Depth	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
Shallow Bar, Octagonal Box with Ears					
BHS-551-L	4	1½	50	130	**"OB"**
Deep Bar, Octagonal Box with Ears					
BHD-551-L	4	1½	50	148	**"OB"**



No. BHS-570-L with No. 570-L 3¼-inch Octagonal Box Mounted on Shallow Bar Hanger

Cat. No.	Size Box, Inches Diam.	Depth	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
BHS-570-L	3¼	1½	50	113	**"OB"**
No. BHD-571-L with No. 571-L 4-inch Octagonal Box Mounted on Deep Bar Hanger					
BHD-571-L	4	1½	50	126	**"OB"**

For Non-Metallic Sheathed Cable
1947 N.E.C. and Non-Metallic Flexible Tubing

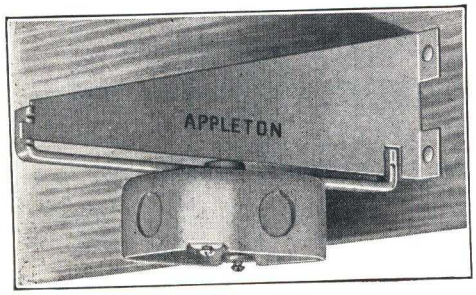


No. 560-L Box Mounted on Shallow Hanger

Cat. No.	Size Box, Inches Diam.	Depth	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
BHS-560-L	3½	1½	50	133	**"OB"**
No. 561-L Box Mounted on Deep Hanger					
BHD-561-L	4	1½	50	148	**"OB"**

APPLETON BAR HANGERS

ADJUSTABLE BAR HANGER



Appleton BAR-⅜" Bar Hanger Installed with 4" Octagonal Ceiling Box on Joist



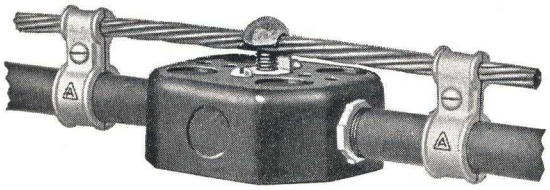
BAR-⅜" Adjustable Bar Hanger

Made in one complete unit — no detachable parts — for easier installation. Bar with ⅜-inch set-screw stud which can be locked in place at desired location, with a screw driver. This permits of complete adjustment of outlet box between joist or studding. Overall length, 9⅞ inches.

Cat. No.	Description	Std. Pkg.	Wt. Lbs.	Price Schedule
BAR-⅜"	Complete with ⅜-inch Adjustable Sliding Set-screw Stud	50	45	"OB"

APPLETON GUY WIRE CONDUIT CLAMPS AND BOX SUPPORTS

For Rigid Conduit (Heavy-Wall) and Electrical Metallic Tubing



Outlet Box with No. 17210 Outlet Box Support and No. 17200 Clamp For Rigid Conduit (Heavy-Wall)

Designed for use in industrial plants having irregular or high ceiling construction making it necessary to suspend the conduit system at a practical level. Box supports are equipped with ⅜-inch fixture studs.

GUY WIRE CONDUIT CLAMPS



For Rigid Conduit (Heavy-Wall)

Cat. No.	Size of Conduit	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
17200	½	100	17	"OB"
17201	¾	100	17	"OB"
17202	1	100	17	"OB"

For Electrical Metallic Tubing

17T200	½	100	15	"OB"
17T201	¾	100	15	"OB"
17T202	1	100	15	"OB"

APPLETON GUY WIRE CONDUIT CLAMPS AND BOX SUPPORTS

GUY WIRE BOX SUPPORT



To be Used in Bottom Knockouts of Outlet Boxes

Furnished with two screws.

Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
17210	100	22	"OB"

GUY WIRE BOX SUPPORT

To be Used in Side Knockouts of Outlet and Handy Boxes



Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
17211	100	18	"OB"

Cadmium finish.

APPLETON SWIVEL HANGER COVERS

For 3¼ and 4-inch Octagonal, 4-inch Square Outlet Boxes and For Concrete Rings

Patent applied for



Without Cushion



Ball—With Cushion

Swivel Hanger Covers listed below are of a new simplified design with a free swing of 30 degrees in all directions from plumb.

They are furnished in two styles, with and without cushion. The cushion type cover is recommended where vibration may take place to increase the life of the lamp bulb.



No. 8438-R



No. 8458-R



No. 8448-R

Ball—Without Cushion

Cat. No.	Size Hub	Wt. Fixture Lbs.	Size and Style Box	Wt. Lbs. Std. Pkg.	Wt. Lbs. Per 100
8438-R	½	----	3¼" & 4" Octagonal Outlet Boxes	100	58
8436-R	¾	----		100	60
8458-R	½	----	4" Square Outlet Boxes	100	67
8459-R	¾	----		100	69
8448-R	½	----	4½" Dia. Concrete Rings	100	61
8449-R	¾	----		100	63



No. 8438-C



No. 8458-C



No. 8450-C

Ball—with Cushion

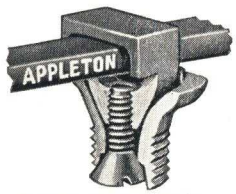
Cat. No.	Size Hub	Wt. Fixture Lbs.	Size and Style Box	Wt. Lbs. Std. Pkg.	Wt. Lbs. Per 100
8438-C	½	3 to 6	3¼" & 4" Octagonal Outlet Boxes	100	63
8439-C	¾			100	65
8458-C	½		4" Square Outlet Boxes	100	70
8459-C	¾			100	72
8450-C	½		4½" Dia. Concrete Rings	100	65
8451-C	¾			100	67
8452-C	½	6 to 12	3¼" & 4" Octagonal Outlet Boxes	100	64
8453-C	¾			100	66
8454-C	½		4" Square Outlet Boxes	100	71
8455-C	¾			100	73
8456-C	½		4½" Dia. Concrete Rings	100	66
8457-C	¾			100	68

Schedule "OB" Discounts

APPLETON BAR HANGERS

BAR HANGERS—WITH SET-SCREW STUD

Also Old Work Bar Hanger and Box Cleat



Cutaway view showing Clamping Arrangement

Includes all these Outstanding Features:

1. No locknuts to run down.
2. Box locked in place with screw driver.
3. Compact design provides more wiring space.
4. Easier to install.

With ⅜-inch Set-Screw Stud



S-21 Straight Bar Hanger—With Set Screw Stud



S-23 Shallow Offset Bar Hanger—With Set Screw Stud



S-24 Deep Offset Bar Hanger—With Set Screw Stud

Cat. No.	Style Hanger	Lgth. In.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
S-21	Straight Bar	18	100	30	"OB"
S-22	Straight Bar	24	100	70	"OB"
S-23	Shallow Offset	19½	100	31	"OB"
S-24	Deep Offset	19½	100	34	"OB"
S-25	Shallow Offset Bar	24	100	37	"OB"
S-26	Deep Offset Bar.....	24	100	41	"OB"

On special orders, above bar hangers can be furnished in any lengths longer than the standard lengths, at an extra charge for each additional inch.

BAR HANGERS—WITH REGULAR STUD



Cat. No.	Style Hanger	Lgth. In.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
BHOW-⅜	Old Work	12	100	44	"OB"

UNIVERSAL BOX CLEAT



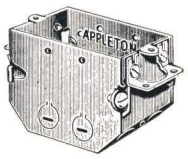
Cat. No.	Style Hanger	Lgth. In.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
CBH	Box Cleat	21	100	61	"OB"

APPLETON SWITCH BOXES

Enameled—Galvanized

For Non-Metallic Sheathed Cable 1947 N.E.C. Code and Non-Metallic Flexible Tubing

No. 33 Box—Without Clamps

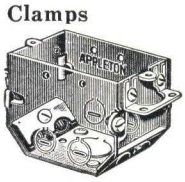


Knockouts, ⅞-inch, 2 in each side, 2 in each beveled corner only. Also ½-inch knockout and fixture stem holes in center of bottom.

Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
33	3	2	2¼	None	100	60	"SB"

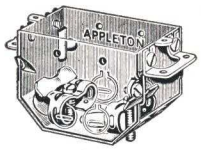
No. 44 Box—With CL-5 Clamps

Knockouts, ⅞-inch, 2 in each side, 2 in each beveled corner only. Also ½-inch knockout and fixture stem holes in center of bottom.



Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
44	3	2	2¼	CL-5	100	64	"SB"

No. 387 Box—With CL-16 Clamps



Knockouts, ⅞-inch, 2 in each side, 2 in each beveled corner only. Also ½-inch knockout and fixture stem holes in center of bottom.

Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
387	3	2	2¼	CL-16	100	68	"SB"

No. 388 Box—With CL-17 Clamp

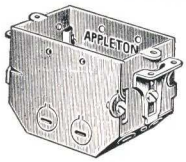
Knockouts, ⅞-inch; two in each side, two in each beveled corner. Also one ½-inch conduit K.O. and fixture stem holes in bottom.



Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
388	3	2	2¼	CL-17	100	64	"SB"

SWITCH BOXES—WITH ADJUSTABLE EARS

No. 33-AE Box—Without Clamps

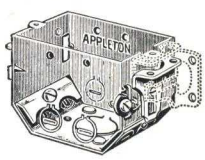


Knockouts ⅞ inch, 2 in each end, 2 in opposite sides; also one ½-inch knockout in bottom for conduit. Boxes: Length 3 inches; width 2 inches; depth 2¼ inches.

Cat. No.	Type of Box Used	Clamps	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
33-AE	33	None	100	68	"SB"

No. 44-AE Box—With CL-5 Clamps

Knockouts ⅞ inch, 2 in each end, 2 in opposite sides; also one ½-inch knockout in bottom for conduit. Boxes: Length 3 inches; width 2 inches; depth 2¼ inches.



Cat. No.	Type of Box Used	Clamps	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
44-AE	44	CL-5	100	72	"SB"

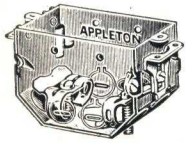
APPLETON SWITCH BOXES

Black Enameled—Galvanized

For Non-Metallic Sheathed Cable 1947 N.E.C. Code and Non-Metallic Flexible Tubing

SWITCH BOXES—WITH ADJUSTABLE EARS

No. 387-AE Box—With CL-16 Clamp

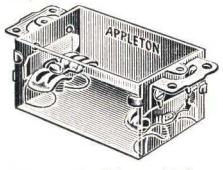


Knockouts 21/32 inch, 2 in each end, 2 in opposite sides; also one ½-inch knockout in bottom of conduit. Boxes: Length 3 inches; width 2 inches; depth 2¼ inches.

Cat. No.	Type of Box Used	Clamps	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
387-AE	387	CL-16	100	72	"SB"

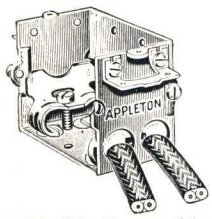
No. 95 Solid Switch Box—With CL-26 Clamps

Two 21/32-inch knockouts in End Corners.



Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
95	3	2	1½	CL-26	100	55	"SB"

Nos. 385 and 386 Boxes—With CL-23 Clamps



With Side Removed to Show Clamps Used

Knockouts, two 21/32 inch in ends, two 21/32 inch in sides; four 21/32 inch and one ½ inch in bottom.

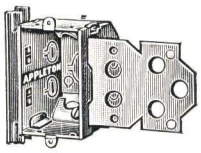
Furnished with two CL-23 Clamps which securely holds the cable in place without injury to the outer covering. Braid of cable does not have to be removed before inserting it into box.

Cat. No.	Size Box, Inches Lgth.	Wdth.	Dpth.	Clamps (Two)	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
385	3	2	2	CL-23	100	65	"SB"
386	3	2	2½	CL-23	100	77	"SB"

WITH MOUNTING BRACKET AND LATH SUPPORT

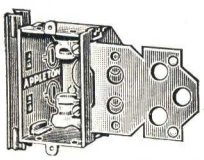
Nos. 33-B and 44-B Boxes

Knockouts, 21/32-inch, 2 in each side, 2 in each beveled corner. ½-inch knockout and fixture-stem holes in bottom. No. 33-B, without clamps; No. 44-B, with clamps.



Cat. No.	Size, In. D.	L.	W.	Clamps (Two)	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
33-B	2¼	3	2	No	50	78	"SB"
44-B	2¼	3	2	CL-5	50	82	"SB"

No. 387-B Box—With CL-16 Clamps



Knockouts, 21/32 inch, 2 in each side, 2 in each beveled corner; four 21/32 inch and one ½ inch in bottom.

Cat. No.	Size Box, Inches Lgth.	Wdth.	Dpth.	Clamps (Two)	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
387-B	3	2	2¼	CL-16	50	90	"SB"

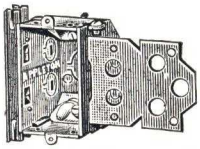
APPLETON SWITCH BOXES

Black Enameled—Galvanized

For Non-Metallic Sheathed Cable 1947 N.E.C. Code and Non-Metallic Flexible Tubing

WITH MOUNTING BRACKET AND LATH SUPPORT

No. 388-B Box—With CL-17 Clamps

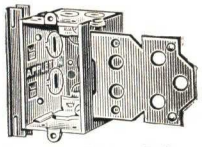


Knockouts, 21/32-inch; two in sides, two in each beveled corner. Also one ½-inch Conduit K.O. and fixture stem holes in bottom.

Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
388-B	3	2	2¼	CL-17	50	82	"SB"

Nos. 385-B and 386-B Boxes

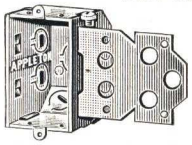
Knockouts, 21/32 inch, two in each end, two in sides; four 21/32 inch and one ½ inch in bottom. Both boxes are furnished with CL-23 clamps.



Cat. No.	Size Box, Inches Lgth.	Wdth.	Dpth.	Clamps (Two)	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
385-B	3	2	2	CL-23	50	86	"SB"
386-B	3	2	2½	CL-23	50	93	"SB"

WITH MOUNTING BRACKET—LESS LATH SUPPORT

No. 33-NL—Without Clamps

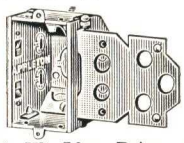


Knockouts, 21/32-inch, 2 in each side, 2 in each beveled corner only. Also ½-inch knockout and fixture stem holes in center of bottom. Without Clamps.

Cat. No.	Size Box, Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
33-NL	3	2	2¼	None	50	74	"SB"

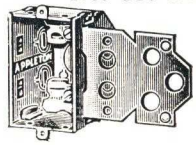
No. 44-NL Box—With CL-5 Clamps

Knockouts, 21/32-inch, 2 in each side, 2 in each beveled corner only. Also ½-inch knockout and fixture stem holes in center of bottom. With two CL-5 Clamps.



Cat. No.	Size Box, Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
44-NL	3	2	2¼	CL-5	50	82	"SB"

No. 387-NL Box—With CL-16 Clamps

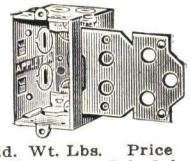


Knockouts, 31/32 inch, 2 in each side, 2 in each end; four 21/32 inch and one ½ inch in bottom. With two CL-16 Clamps.

Cat. No.	Size Box, Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
387-NL	3	2	2¼	CL-16	50	84	"SB"

Nos. 385-NL and 386-NL—With CL-23 Clamps

Knockouts, 31/32 inch, 2 in each side, 2 in each end; four 21/32 inch and one ½-inch in bottom. With two CL-23 Clamps.



Cat. No.	Size Box, Inches Lgth.	Wdth.	Dpth.	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
385-NL	3	2	2	CL-23	50	78	"SB"
386-NL	3	2	2½	CL-23	50	88	"SB"

APPLETON "VB" SWITCH BOXES

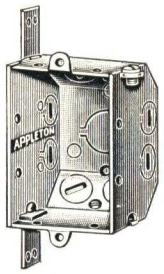
Black Enameled—Galvanized

For Non-Metallic Sheathed Cable 1947 N.E.C. Code and Non-Metallic Flexible Tubing

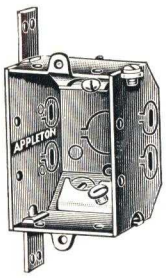
"VB" BRACKET SWITCH BOXES

NO LATH SUPPORT

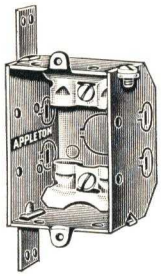
Used in Wall Board, Beaver Board, Veneer Board and Plaster Board Construction



33-VB



44-VB



387-VB



385-VB
386-VB

Plastered wall construction has given away, to a large extent, to the popularity of wall board, veneer board and similar types of construction. When using this type of board, the electrician finds that it is necessary to channel out the studding so that the switch box with standard bracket lies flush with the studding. In this way, the wall board lies flat up against studding with the proper support for fastening purposes.

In order to simplify the electricians' work in installations using wall board or veneer board, the "VB" Bracket Switch Box, provides a simple solution to what ordinarily is a rather complicated task. The flat type "VB" Bracket spot-welded onto the long side of a Standard Switch Box, provides an easy means of solidly mounting the switch box to the wide side of a two-by-four, thus eliminating the need for channeling out the wall board or the studding. The "VB" Bracket Switch Box is easily fixed into place so that the edges of the switch box come perfectly flush with the outer surface of the board.

May also be used under ¾-in. Celotex or boards having a thickness up to ⅞-inch.

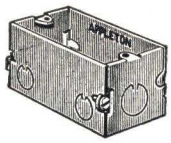
Cat. No.	Depth In.	Box Used	Clamps (Two)	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
33-VB	2¼	No. 33	No	100	68	"SB"
44-VB	2¼	No. 44	CL-5	100	72	"SB"
387-VB	2¼	No. 387	CL-16	100	72	"SB"
385-VB	2	No. 385	CL-23	100	77	"SB"
386-VB	2½	No. 386	CL-23	100	84	"SB"

APPLETON SWITCH BOXES

Black Enameled—Galvanized

FOR ½-INCH RIGID CONDUIT (HEAVY-WALL)

No. 444 Box

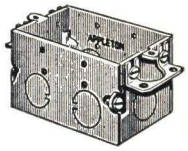


Knockouts, 1 in each end for ½-inch conduit and two $\frac{21}{32}$-inch in each side for loom. Also one ½-inch knockout and fixture-stem holes in bottom.

Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Supporting Ears	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
444	4	2	1⅞	None	50	65	"SB"

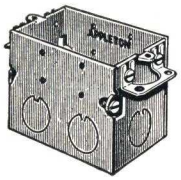
No. 111 Box

No. 111 Box. Knockouts — Ends, one ½-inch; Sides, two ½-inch; Bottom, one ½-inch.



Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Supporting Ears	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
111	3	2	2	Yes	100	60	"SB"

No. 222 Box



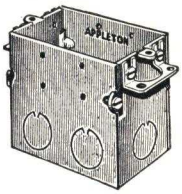
No. 222 Box. Knockouts — Ends, one ½-inch; Sides, two ½-inch; Bottom, one ½-inch.

Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Supporting Ears	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
222	3	2	2½	Yes	100	70	"SB"

No. 333 and 333-D Boxes

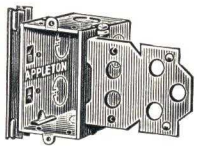
No. 333 Box. Knockouts — Ends, one ½-inch; Sides, two ½-inch; Bottom, one ½-inch.

No. 333-D Box. Knockouts — Ends, one ½-inch; Sides, two ½-inch; bottom, one ½-inch.



Cat. No.	Dimens., Inches Lgth.	Wdth.	Dpth.	Supporting Ears	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
333	3	2	2¾	Yes	100	77	"SB"
333-D	3	2	3½	Yes	50	91	"SB"

WITH MOUNTING BRACKET AND LATH SUPPORT



2 inches deep for Rigid Conduit. Knockouts in each end and two in each side for ½-inch Conduit. Also, ½-inch knockout and fixture stem holes in center of bottom.

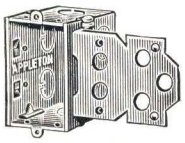
Cat. No.	Dimens., In. D.	L.	W.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
111-B	2	3	2	50	78	"SB"
222-B	2½	3	2	50	88	"SB"
333-B	2¾	3	2	50	94	"SB"

APPLETON SWITCH BOXES

Black Enameled—Galvanized

WITH MOUNTING BRACKET LESS LATH SUPPORT

For ½-Inch Rigid Conduit (Heavy-Wall)

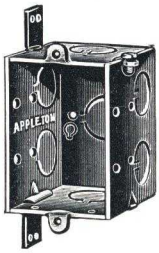


Knockouts: No. 111-NL Box has knockouts in each end and two in each side for ½-inch Conduit. Also, ½-inch knockout and fixture stem holes in center of bottom. No. 222-NL and No. 333-NL Boxes have 2 knockouts in each side, 1 in each end and 1 in bottom for ½-inch conduit. Also, ½-inch knockout and fixture stem holes in bottom. No clamps.

Cat. No.	Type of Box	Dimens., Inches Lgth.	Wdth.	Dpth.	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
111-NL	111	3	2	2	50	78	**"SB"**
222-NL	222	3	2	2½	50	88	**"SB"**
333-NL	333	3	2	2¾	50	94	**"SB"**

"VB" BRACKET SWITCH BOXES

No Lath Support
For ½-Inch Rigid Conduit (Heavy-Wall)



All ½-inch knockouts are for ½-inch conduit. One ½-inch in ends, two ½-inch in sides and one ½-inch in bottom.

No clamps furnished with these boxes.

Cat. No.	Type of Box	Dimens., Inches Lgth.	Wdth.	Dpth.	Std. Pkg.	Wt.Lbs. Per 100	Price Schedule
111-VB	111	3	2	2	100	78	**"SB"**
222-VB	222	3	2	2½	100	88	**"SB"**
333-VB	333	3	2	2¾	100	94	**"SB"**

SWITCH BOX EXTENSION



Designed to fit snugly inside the box and allow ample room for switch and wiring. Screws furnished are 1 inch long. Fit all single-gang switch boxes. Depth, ⅞-inch.

Cat. No.	No. of Gangs	Depth Inches	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
1490	Single	⅞	100	15	**"SB"**

DOOR SWITCH BOXES

No. 7010—For Perkins Door Switches. One ⅝-inch knockout in one end and bottom for flexible Non-metallic Sheathed Cable with Type "T" or 1946 Code Rubber Insulation and one knockout in opposite end for ½-inch Rigid Conduit. Screw centers 3¾ inches.





No. 7011—Same as above only has $\frac{33}{32}$-inch knockout for flexible Steel Conduit and is furnished with clamp.

Cat. No.	Dimens. In. L.	W.	D.	Screw Centers, In.	Price Schedule
7010	3⅝	1¼	2⅝	3¾	**"SB"**
7011	3⅝	1¼	2⅝	3¾	**"SB"**

APPLETON SNAP-IN BLANKS



Used for closing up the knockouts in Service or Outlet Boxes. Snaps into place like a glove fastener. Neat in appearance, made in one piece, and thoroughly rust-proofed.

Cat. No.	Size In.	Wt.Lbs. Per 1000	Price Schedule	Cat. No.	Size In.	Wt.Lbs. Per 1000	Price Schedule
18870	½	17	**"LB"**	**18873**	1¼	40	**"LB"**
18871	¾	20	**"LB"**	**18874**	1½	43	**"LB"**
18872	1	30	**"LB"**	**18875**	2	65	**"LB"**

APPLETON SNAP-IN BUSHINGS

The Snap-In Bushings are the same as the blanks above except that they have a hole and this hole in the ½-inch bushing will take single braid rubber-covered wire up to No. 8; ¾-inch bushing will take double braid wire up to No. 4.

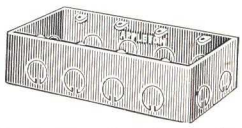


Cat. No.	Size	Wt. Lbs. Per 1000	Price Schedule
18880	½-inch	15	**"LB"**
18881	¾-inch	20	**"LB"**

APPLETON SOLID GANG SWITCH BOXES

Galvanized Finish Only

WITH SQUARE CORNERS FOR RIGID CONDUIT



Boxes are solid and ears permit of mounting any standard push button or rectangular base switch and also receptacles. Regularly used for concealed work, but can be furnished for open work and flush covers if desired.

Cat. No.	No. of Gangs	Depth Inches	Size K.O.	Std. Pkg.	Wt. Lbs. Per 100	Price Schedule
			2-Gang			
19010	2	2¼	½	25	130	**"SB"**
19025	2	2¼	¾	25	130	**"SB"**
19011	2	2½	½	25	140	**"SB"**
19026	2	2½	¾	25	140	**"SB"**
			3-Gang			
19015	3	2¼	½	25	175	**"SB"**
19030	3	2¼	¾	25	175	**"SB"**
19016	3	2½	½	25	185	**"SB"**
19031	3	2½	¾	25	185	**"SB"**
			4-Gang			
19020	4	2¼	½	10	205	**"SB"**
19035	4	2¼	¾	10	205	**"SB"**
19021	4	2½	½	10	235	**"SB"**
19036	4	2½	¾	10	235	**"SB"**
			5-Gang			
19070	5	2¼	½	1	195	**"SB"**
19075	5	2¼	¾	1	195	**"SB"**
19080	5	2½	½	1	215	**"SB"**
19085	5	2½	¾	1	215	**"SB"**
			6-Gang			
19071	6	2¼	½	1	340	**"SB"**
19076	6	2¼	¾	1	340	**"SB"**
19081	6	2½	½	1	350	**"SB"**
19086	6	2½	¾	1	350	**"SB"**

Switch boxes are furnished galvanized only.

APPLETON SWITCH BOX COVERS

Galvanized Finish Only

FOR SOLID GANG SWITCH BOXES
2, 3, 4, 5 and 6-GANG

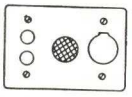
Furnished with fastening screws.

Instructions for Ordering:

1. To describe combinations, give designating letters from left to right in order of arrangement desired.
2. State number of gangs.

Example: An order for 50 three-gang covers for flush mounting, for push button switch, pilot lamp, and round flush receptacle, arranged from left to right in order given, should read: "50 flush covers, combination "FRK," for 3-gang solid switch box."

List Prices: The price of any combination cover is the sum of the prices of the component covers listed on this page, plus a flat charge of **$0.06** net per gang.



For prices of combination "FRK" cover see Schedule "SB".



Cat. No. F — Description: For Double Push Button Switches — Price Schedule: "SB"



Cat. No. J — Description: For Round Flush Receptacles, (Without Lift Cover) — Price Schedule: "SB"



Cat. No. K — Description: For Round Flush Receptacles, (With Lift Cover) — Price Schedule: "SB"



Cat. No. O — Description: For Standard Duplex Flush Receptacles — Price Schedule: "SB"



Cat. No. PS1 — Description: For P&S-Despard, Bryant "IL", and Hubbell Interchangeable Line. (For 1 Device) — Price Schedule: "SB"



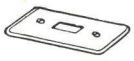
Cat. No. PS3 — Description: For P&S-Despard, Bryant "IL", and Hubbell Interchangeable Line. (For 2 or 3 Devices) — Price Schedule: "SB"



Cat. No. Q — Description: For Sign Receptacles with Removable Ring (1½-inch hole) — Price Schedule: "SB"



Cat. No. R — Description: For Pilot Lamp Receptacle, With Ruby Jewel — Price Schedule: "SB"



Cat. No. S — Description: For Arrow, Bryant, Connecticut and G-E Square Handle Toggle Switches — Price Schedule: "SB"



Cat. No. X — Description: Blank Metal — Price Schedule: "SB"

Covers are furnished galvanized only.

APPLETON SOLID CONDUIT GANG SWITCH BOXES AND COVERS

DEEP TYPE



GSB-4 Box—2" Deep



GSC-4 Cover—¾" Deep



GSCS-4 Cover—¼" Deep

No. Gangs	Std. Pkg.	Boxes Only 2" Deep Cat. No.	Wt. Lbs Per 100	Covers Only ¾" Deep Cat. No.	Wt. Lbs. Per 100	Covers Only ¼" Deep Cat. No.	Wt. Lbs. Per 100
2	25	**GSB-2**	150	**GSC-2**	58	**GSCS-2**	45
3	25	**GSB-3**	181	**GSC-3**	63	**GSCS-3**	48
4	25	**GSB-4**	213	**GSC-4**	70	**GSCS-4**	56
5	25	**GSB-5**	256	**GSC-5**	102	**GSCS-5**	67
6	25	**GSB-6**	263	**GSC-6**	104	**GSCS-6**	68
7	20	**GSB-7**	311	**GSC-7**	134	**GSCS-7**	83
8	20	**GSB-8**	356	**GSC-8**	138	**GSCS-8**	85
9	20	**GSB-9**	375	**GSC-9**	139	**GSCS-9**	89
10	20	**GSB-10**	413	**GSC-10**	152	**GSCS-10**	94

Can be furnished with either ½ or ¾-inch knockouts. All orders must specify which size is wanted. In addition to one knockout for each gang, there are two additional in each side of the 2-gang to 8-gang boxes. For example on 2-inch deep boxes: A GSB-2 box will have four knockouts in each side, a GSB-3 box will have five knockouts in each side, etc. All 2-inch deep two and three-gang have five ½-inch knockouts in center of bottom. All 2-inch deep four- to ten-gang boxes inclusive, have two sets of five ½-inch knockouts in bottom.

SHALLOW TYPE



GB-4 Box—1½" Deep



GC-4 Cover—¼" Deep

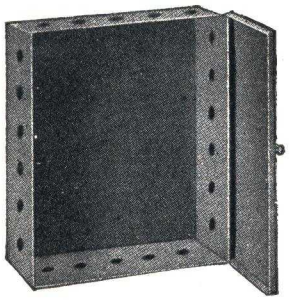
No. Gangs	Std. Pkg.	Boxes Only 1½" Deep Cat. No.	Wt. Lbs. Per 100	Covers Only ¼" Deep Cat. No.	Wt. Lbs. Per 100
2	25	**GB-2**	110	**GC-2**	27
3	25	**GB-3**	125	**GC-3**	29
4	25	**GB-4**	178	**GC-4**	38
5	25	**GB-5**	206	**GC-5**	40
6	25	**GB-6**	214	**GC-6**	44

For example on 1½-inch deep boxes: A GB-2 box will have three knockouts in each side, a GB-3 box will have four knockouts in each side, etc. All 1½-inch deep boxes, two to six -gang inclusive have five ½-inch knockouts in bottom.

Schedule "OB" Discounts

ISERT CUTOUT BOXES AND CABINETS

TYPE "A" SURFACE CABINETS



Style "A" Box

The boxes listed below are made to conform with Underwriters' Laboratories requirements and bear Underwriters' labels.

This style of cabinet is adapted to nearly all installations where a cabinet for surface mounting is required to be used as junction, service, switch, panel or cutout cabinet.

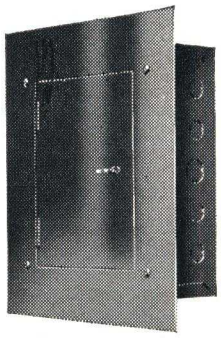
All boxes electrically welded and furnished with tight door flanged on four sides, knockouts, and with dependable catch. Smaller boxes have ring pull which lies flush with door when boxes are not in use for convenience in stacking.

H. In.	W. In.	3 Inches Deep	4 Inches Deep	6 Inches Deep	8 Inches Deep	10 Inches Deep	12 Inches Deep
4½	5	$1.60					
4½	9	2.20					
6	6	2.00	$2.50	$2.70			
8	6	2.40	2.90	3.16			
6	9	2.60	3.10	3.40			
12	6	3.10	3.66	4.10			
8	8	2.80	3.36	3.74	$4.80		
10	8	3.16	3.70	4.20	5.36		
12	8	3.64	4.20	4.80	6.04		
9	9	3.26	3.80	4.30	5.40		
12	9	3.90	4.50	5.10	6.40		
10	10	3.50	4.30	4.86	6.14	$7.20	
12	10	4.20	4.70	5.40	6.80	8.14	
15	10	4.80	5.40	6.20	7.70	8.94	
18	10	5.40	6.00	6.94	8.60	9.86	
12	12	4.70	5.26	6.00	7.50	8.70	$10.20
15	12	5.40	5.90	6.84	8.46	9.74	11.24
18	12		6.60	7.60	9.34	10.66	12.20
24	12		7.60	8.86	10.86	12.14	13.66
15	15		6.70	7.70	9.50	10.80	12.30
18	15		7.30	8.50	10.40	11.76	13.24
24	15		8.40	9.76	11.90	13.20	14.46
18	18		8.10	9.30	11.34	12.90	14.34
30	12		15.36	17.10	20.10	22.30	24.60
36	12		17.34	20.30	22.80	25.30	27.90
30	15		17.60	20.04	23.20	25.60	28.00
36	15		20.00	24.00	26.64	29.30	32.00
21	18		15.40	17.34	19.90	22.20	24.40
24	18		16.94	19.10	22.00	24.30	26.50
30	18		19.80	23.00	26.34	28.80	31.50
36	18		22.10	27.20	30.00	32.80	35.60
40	18		23.36	29.80	32.80	35.80	38.80
24	24		20.60	23.94	27.30	29.90	32.46
30	24		23.54	28.76	32.56	35.46	38.30
36	24		26.20	33.60	37.14	40.20	43.30
40	24		27.80	36.20	39.90	43.50	47.10
30	30		35.40	43.46	47.60	50.84	54.00
44	24		47.70	52.50	57.20	62.00	66.80
48	24		51.70	56.70	61.76	66.80	71.90
36	30		56.76	61.40	66.10	70.70	75.40
42	30		64.80	69.70	74.60	79.50	81.60
48	30		72.84	78.00	83.16	88.30	93.40
36	36		64.10	69.00	73.90	79.56	84.66

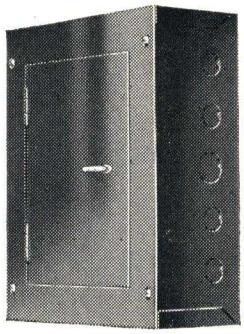
First dimension indicates hinge side.

ISERT CUTOUT BOXES AND CABINETS

TYPE "P" FLUSH CABINETS AND TYPE "PS" SURFACE CABINETS



Type P Flush Cabinet



Type PS Surface Cabinet

Type P—This style of cabinet is adapted to nearly all installations where a cabinet for flush mounting is required to be used in junction, service, switch, panel or cutout cabinet.

Type PS—This type is a very superior panelboard cabinet. The trim is plain, is removable, and it makes a very good appearance on almost any kind of installation.

The boxes listed on this page are made to conform with Underwriters' Laboratories requirements and bear Underwriters' labels.

UNDERWRITERS' REQUIREMENTS—FLUSH CABINETS

No. 16 U.S. Gauge Tub, No. 14 U.S. Gauge Trim if no single dimension exceeds 24 inches or any surface area 360 square inches.

No. 14 U.S. Gauge Tub. No. 12 U.S. Gauge Trim if no single dimension exceeds 40 inches or any surface area 1000 square inches.

No. 12 U.S. Gauge Tub and Trim if no single dimension exceeds 60 inches or any surface area 1500 square inches.

No. 10 U.S. Gauge Tub and Trim for any cabinet larger than the above.

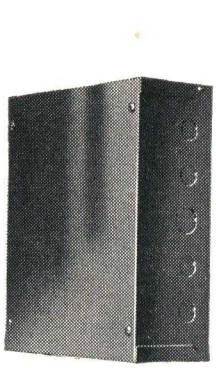
STANDARD SPECIFICATIONS

Hardware—Cabinets are regularly equipped with knob and turn catch. Cabinets have surface area of over 360 square inches are furnished with vault handle. If Locks or other special construction features are desired, refer to end of listing for additional specifications.

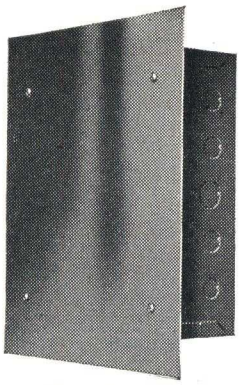
Height Inches	Width Inches	4 Inches Deep	6 Inches Deep	8 Inches Deep	10 Inches Deep	12 Inches Deep
10	10	$8.00	$9.40	$10.90	$11.90	
12	10	9.24	10.60	11.96	12.60	
15	10	9.44	11.50	13.50	14.76	
18	10	10.60	13.50	14.90	15.20	
12	12	9.36	11.70	12.80	13.80	$14.36
15	12	11.50	13.80	14.30	15.60	17.50
18	12	12.70	15.00	16.00	17.20	18.70
24	12	14.40	17.26	18.60	21.24	23.20
15	15	13.10	14.70	16.20	18.20	21.20
18	15	14.00	16.50	18.60	20.40	22.20
24	15	16.60	19.60	22.00	24.20	27.20
18	18	15.20	18.00	20.20	22.20	24.10

ISERT SCREW COVER PULL BOXES

TYPE "SC" SCREW COVER PULL BOXES



Screw Cover Pull Box



Flush Screw Cover Pull Box

The Screw Cover Pull Box is made with all four edges flanged in and with flat removable covers fastened with machine screws.

The Flush Screw Cover Pull Box is made with flat removable cover fastened with machine screws.

Boxes in this List are Priced in No. 16 Gauge Steel

The list prices of sizes which are omitted in this list must be made of heavier gauge steel to conform with National Electrical Code.

Long	Wide	3 Inches Deep	4 Inches Deep	6 Inches Deep	8 Inches Deep	10 Inches Deep	12 Inches Deep
4½	5	$1.98	.....	.....	.....	.....	.....
4½	9	2.76	.....	.....	.....	.....	.....
6	6	2.54	$3.14	$3.35	.....	.....	.....
8	6	3.00	3.64	3.96	.....	.....	.....
9	6	3.24	3.88	4.26	.....	.....	.....
12	6	3.88	4.58	5.14	.....	.....	.....
8	8	3.54	4.20	4.68	$5.98	.....	.....
10	8	3.96	4.66	5.26	6.70	.....	.....
12	8	4.56	5.28	5.98	7.56	.....	.....
9	9	4.08	4.76	5.36	6.78	.....	.....
12	9	4.90	5.60	6.36	8.08	.....	.....
10	10	4.36	5.36	6.08	7.68	$9.04	.....
12	10	5.24	5.90	6.76	8.48	10.18	.....
15	10	6.04	6.76	7.74	9.66	11.18	.....
18	10	6.78	7.50	8.68	10.74	12.34	.....
12	12	5.86	6.58	7.50	9.38	10.88	$12.74
15	12	6.74	7.40	8.56	10.58	12.18	14.06
18	12	.....	8.24	9.50	11.68	13.34	15.28
24	12	.....	9.54	11.08	13.58	15.18	17.08
15	15	.....	8.36	9.66	11.88	13.54	15.40
18	15	.....	9.16	10.64	13.04	14.70	16.54
24	15	.....	10.48	12.20	14.88	16.48	18.08
18	18	.....	10.10	11.64	14.18	16.14	17.94

Screw cover mounted on length-width dimension.

ISERT SCREW COVER PULL BOXES

TYPE "SC" SCREW COVER PULL BOXES

Boxes in this List are Priced in No. 14 Gauge Steel

The list prices of sizes which are omitted in this list must be made of heavier gauge steel to conform with National Electrical Code.

Long	Wide	3 Inches Deep	4 Inches Deep	6 Inches Deep	8 Inches Deep	10 Inches Deep	12 Inches Deep
6	6	$3.16	$3.92	$4.20	.....	.....	.....
8	6	3.76	4.54	4.94	.....	.....	.....
9	6	4.04	4.86	5.30	.....	.....	.....
12	6	4.86	5.74	6.40	.....	.....	.....
8	8	4.40	5.26	5.86	$7.48	.....	.....
10	8	4.94	5.80	6.56	8.38	.....	.....
12	8	5.70	6.60	7.48	9.44	.....	.....
9	9	5.10	5.94	6.68	8.48	.....	.....
12	9	6.14	7.00	7.94	10.04	.....	.....
10	10	5.44	6.70	7.60	9.60	$11.30	.....
12	10	7.80	7.38	8.44	10.60	12.74	.....
15	10	7.54	8.44	9.66	12.06	13.98	.....
18	10	8.48	9.38	10.86	13.40	15.40	.....
12	12	7.30	8.24	9.38	11.74	13.60	$15.90
15	12	8.40	9.26	10.70	13.24	15.24	17.56
18	12	.....	10.30	11.88	14.60	16.66	19.10
24	12	.....	11.90	13.86	16.98	18.98	21.36
15	15	.....	10.44	12.06	14.84	16.90	19.26
18	15	.....	11.44	13.30	16.30	18.38	20.70
24	15	.....	13.10	15.10	18.60	20.60	22.60
18	18	.....	12.64	14.54	17.74	20.16	22.40
30	12	.....	19.20	21.38	25.14	27.90	30.76
36	12	.....	21.68	25.36	28.50	31.66	34.88
30	15	.....	22.00	25.06	29.04	32.02	35.04
36	15	.....	25.00	30.00	33.30	36.60	40.00
21	18	.....	19.28	21.68	24.86	27.74	30.50
24	18	.....	21.18	23.86	27.48	30.38	33.10
30	18	.....	24.76	28.74	32.94	36.00	39.38
36	18	.....	27.60	33.98	37.50	41.04	44.50
40	18	.....	29.20	37.28	41.04	44.78	48.54
24	24	.....	25.78	29.94	34.16	37.36	40.58
30	24	.....	29.44	35.96	40.70	44.34	47.86
36	24	.....	32.78	42.00	46.44	50.26	54.16
40	24	.....	34.76	45.24	49.88	54.38	58.88
30	30	.....	35.38	43.46	47.60	50.84	54.00

The Boxes in this List are Priced in No. 12 Gauge Steel

6	6	$4.44	$5.48	$5.86	.....	.....	.....
8	6	5.26	6.36	6.90	.....	.....	.....
9	6	5.64	6.70	7.44	.....	.....	.....
12	6	6.80	8.02	8.98	.....	.....	.....
8	8	6.18	7.36	8.20	$10.48	.....	.....
10	8	6.90	8.14	9.20	11.72	.....	.....
12	8	7.96	9.24	10.48	13.20	.....	.....
9	9	7.14	8.30	9.36	11.86	.....	.....
12	9	8.58	9.80	11.10	14.06	.....	.....
10	10	7.60	9.36	10.64	13.44	$15.80	.....
12	10	9.16	10.34	11.80	14.84	17.82	.....
15	10	10.54	11.80	13.54	16.90	19.56	.....
18	10	11.86	13.14	15.20	18.78	21.58	.....
12	12	10.24	11.52	13.14	16.42	19.04	$22.28
15	12	11.78	12.96	14.96	18.52	21.32	24.58
18	12	.....	14.40	16.64	20.44	23.34	26.74
24	12	.....	16.68	19.40	23.76	26.58	29.88
15	15	.....	14.60	16.88	20.80	23.68	26.96
18	15	.....	16.00	18.60	22.80	25.74	28.96
24	15	.....	18.34	21.36	26.04	28.84	31.64
18	18	.....	17.68	20.36	24.82	28.24	31.38

Screw Cover Mounted on Length-Width Dimension.

ISERT CUTOUT BOXES AND CABINETS

MISCELLANEOUS

1. **Finish** of standard boxes and cabinets is a high-grade black enamel.

2. **Style**—Be sure to always specify Style of box or cabinet wanted. In absence of this information, we will supply surface type and always labeled boxes and cabinets.

3. **Knockouts**—All prices include knockouts for ½-inch conduit on standard centers on the two sides and top and bottom. Special knockouts will be charged as follows: Where there is one size or more in a box but on regular centers or only one size additional to knockouts for ½-inch conduit, all on regular centers, add one cent net per size per box, with minimum of **$1.00** net on an order. Where knockouts for ½-inch conduit only are required, but not on standard centers, add one cent net per box with minimum **$1.00** net on an order. If more than one size or knockout or drilling is required in a box of one special size only, on irregular centers add extra for each knockout or drilling as follows: For loom, ½-inch, ¾-inch, 1-inch, 1¼-inch and 1½-inch conduit, 20 cents each net; for 2-inch to 4-inch conduit, inclusive, 25 cents each net; larger, 30 cents each net.

There will be a minimum charge for special knockouts or drillings of **$1.00** net per order.

4. **Catches**—All Style "A" boxes unless otherwise ordered, will have suitable friction catch, which may be adjusted to fit tight or loose by anyone at any time. Underwriters' specification boxes will be properly fitted with the inside spring catches.

5. **Handles**—Most Style "A" doors are furnished with ring pull, which lies flush with the surface of the box when not in use and permits stacking on shelves. All Underwriters' specification boxes will have handles in accordance with their ruling. Where "T" handles and disc are desired as special equipment, there is an extra charge of **$1.00** list per box; for three-way latching device, **$5.00** list per box. Nickel-plated "T" handles, **$2.00** list extra.

6. **Hinges**—All prices except those on the 4½x 9x3" and 4½x5x3" boxes are for hinges on long side.

7. **Double Doors** — Labeled boxes or cabinets over 24 inches in width are furnished with double doors. Unlabeled boxes or cabinets over 30 inches are furnished with double doors. When not included in regular construction add **$6.00** to list for double doors.

8. **Holes, Tapped**—Add **5** cents per hole, drilled only **2** cents per hole, a minimum charge of **$1.00** per order.

9. **Package**—All Style "A" boxes are shipped in strongly bound bundles. If boxes are desired to be crated, increase the price of each box by 10 per cent.

Table of Weights

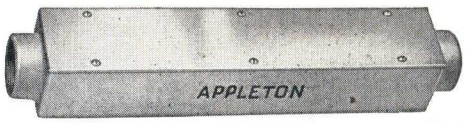
Representative Box Sizes—All Labeled

Type—Style "A"

Size	Each	Size	Each
6x 8x3	3.8 lbs.	15x24x4	20.2 lbs.
6x 8x4	4.3 lbs.	15x30x4	31.7 lbs.
8x10x3	5.3 lbs.	18x24x4	29. lbs.
8x10x4	6.0 lbs.	21x30x4	40.9 lbs.
10x15x4	9.6 lbs.	24x30x6	49.6 lbs.
15x18x4	15. lbs.	30x30x6	64.2 lbs.
18x18x4	17.4 lbs.	36x48x9	237. lbs.

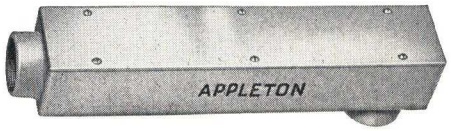
PULL BOXES—"PT" SERIES

TYPE "PTC"—THREADED



Size Inches	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
	12 Inches		18 Inches		24 Inches		30 Inches	
1	1200	†	1210	†	1220	†	1230	†
1¼	1201	†	1211	†	1221	†	1231	†
1½	1202	†	1212	†	1222	†	1232	†
2	1203	†	1213	†	1223	†	1233	†
2½	1204	†	1214	†	1224	†	1234	†
3	1205	†	1215	†	1225	†	1235	†
3½	1206	†	1216	†	1226	†	1236	†
4	1207	†	1217	†	1227	†	1237	†
5	1208	†	1218	†	1228	†	1238	†
6	1209	†	1219	†	1229	†	1239	†
	36 Inches		42 Inches		48 Inches		54 Inches	
1	1240	†	Not Made		Not Made		Not Made	
1¼	1241	†	Not Made		Not Made		Not Made	
1½	1242	†	Not Made		Not Made		Not Made	
2	1243	†	1800	†	1810	†	1820	†
2½	1244	†	1801	†	1811	†	1821	†
3	1245	†	1802	†	1812	†	1822	†
3½	1246	†	1803	†	1813	†	1823	†
4	1247	†	1804	†	1814	†	1824	†
5	1248	†	1805	†	1815	†	1825	†
6	1249	†	1806	†	1816	†	1826	†
	60 Inches		66 Inches		72 Inches			
2	1830	†	1840	†	1550	†	....	....
2½	1831	†	1841	†	1551	†	....	....
3	1832	†	1842	†	1552	†	....	....
3½	1833	†	1843	†	1553	†	....	....
4	1834	†	1844	†	1554	†	....	....
5	1835	†	1845	†	1555	†	....	....
6	1836	†	1846	†	1556	†	....	....

TYPE "PTB"—THREADED



Size Inches	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
	12 Inches		18 Inches		24 Inches		30 Inches	
1	1250	†	1260	†	1270	†	1280	†
1¼	1251	†	1261	†	1271	†	1281	†
1½	1252	†	1262	†	1272	†	1282	†
2	1253	†	1263	†	1273	†	1283	†
2½	1254	†	1264	†	1274	†	1284	†
3	1255	†	1265	†	1275	†	1285	†
3½	1256	†	1266	†	1276	†	1286	†
4	1257	†	1267	†	1277	†	1287	†
5	1258	†	1268	†	1278	†	1288	†
6	1259	†	1269	†	1279	†	1289	†
	36 Inches		42 Inches		48 Inches		54 Inches	
1	1290	†	Not Made		Not Made		Not Made	
1¼	1291	†	Not Made		Not Made		Not Made	
1½	1292	†	Not Made		Not Made		Not Made	
2	1293	†	1850	†	1860	†	1870	†
2½	1294	†	1851	†	1861	†	1871	†
3	1295	†	1852	†	1862	†	1872	†
3½	1296	†	1853	†	1863	†	1873	†
4	1297	†	1854	†	1864	†	1874	†
5	1298	†	1855	†	1865	†	1875	†
6	1299	†	1856	†	1866	†	1876	†
	60 Inches		66 Inches		72 Inches			
2	1880	†	1890	†	1540	†	....	....
2½	1881	†	1891	†	1541	†	....	....
3	1882	†	1892	†	1542	†	....	....
3½	1883	†	1893	†	1543	†	....	....
4	1884	†	1894	†	1544	†	....	....
5	1885	†	1895	†	1545	†	....	....
6	1886	†	1896	†	1546	†	....	....

Cadmium finish. Dimensions give length of body only, not including hubs.

†See Schedule "OB" for prices.

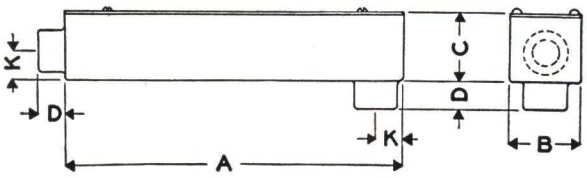
SOLID GASKETS FOR "PT" SERIES PULL BOXES

Size Inches	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
	12 Inches		18 Inches		24 Inches	
1	11200	†	11210	†	11220	†
1¼ & 1½	11201	†	11211	†	11221	†
2	11203	†	11213	†	11223	†
2½ & 3	11204	†	11214	†	11224	†
3½ & 4	11206	†	11216	†	11226	†
5	11208	†	11218	†	11228	†
6	11209	†	11219	†	11229	†
	30 Inches		36 Inches		42 Inches	
1	11230	†	11240	†	.....	.....
1¼ & 1½	11231	†	11241	†	.....	.....
2	11233	†	11243	†	11800	†
2½ & 3	11234	†	11244	†	11801	†
3½ & 4	11236	†	11246	†	11803	†
5	11238	†	11248	†	11805	†
6	11239	†	11249	†	11806	†
	48 Inches		54 Inches		60 Inches	
2	11810	†	11820	†	11830	†
2½ & 3	11811	†	11821	†	11831	†
3½ & 4	11813	†	11823	†	11833	†
5	11815	†	11825	†	11835	†
6	11816	†	11826	†	11836	†
	66 Inches		72 Inches			
2	11840	†	11510	†	.....	.....
2½ & 3	11841	†	11511	†	.....	.....
3½ & 4	11843	†	11514	†	.....	.....
5	11845	†	11515	†	.....	.....
6	11846	†	11516	†	.....	.....

†See Schedule "OB" for prices.

DIMENSIONS OF "PT" SERIES PULL BOXES

TYPES "PTB" AND "PTC"—THREADED PULL BOXES



SIZE	A — As Selected According to Catalog Number	B	C	D Threaded Hubs	D	K
1″	12″ to 36″ inclusive	2 3/16″	2 1/8″	27/32″		15/16″
1¼″	12″ to 36″ inclusive	2 1/2″	2 7/16″	1 1/16″		1 5/32″
1½″	12″ to 36″ inclusive	2 1/2″	2 7/16″	1 1/16″		1 3/8″
2″	12″ to 72″ inclusive	3 11/32″	3 5/16″	1 5/16″		1 11/16″
2½″	12″ to 72″ inclusive	4 13/16″	4 3/4″	1 19/32″		1 13/16″
3″	12″ to 72″ inclusive	4 13/16″	4 3/4″	1 21/32″		2 1/16″
3½″	12″ to 72″ inclusive	6 5/16″	6 3/16″	1 29/32″		2 3/8″
4″	12″ to 72″ inclusive	6 5/16″	6 3/16″	1 29/32″		2 21/32″
5″	12″ to 72″ inclusive	7 5/16″	7 3/16″	2 9/32″		3 1/4″
6″	12″ to 72″ inclusive	8 5/16″	8 3/16″	2 5/16″		3 13/16″

T & B CAST IRON JUNCTION BOXES AND COVERS

FLANGED AND UNFLANGED TYPES

Approved by Underwriters' Laboratories



Flanged



Unflanged

Flanged and unflanged cast iron boxes are watertight and weatherproof when gasketed. They are heavy walled boxes designed to meet the most rigid requirements of subway, industrial, marine, underground work, etc. Thinner walled boxes may be furnished, if desired, at less cost.

Boxes listed are all hot dip galvanized. Drilling and tapping information on request.

Flanged Type

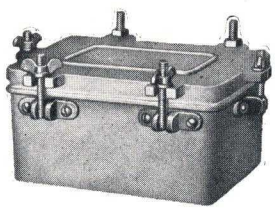
Cat. No.	Size Inches Wdth.	Lgth.	Dpth.	Box Only Price Ea.	Box and Cover Price Ea.	Wt. Lbs. Complete	Gasket Price Each
10897	6	x 6	x 3	$11.75	$17.50	9	$2.50
10898	6	x 6	x 4	15.50	21.25	8	2.50
10915	6	x 6	x 6	18.00	23.75	14	2.50
10900	6	x 8	x 3	19.25	25.00	14	3.00
10902	6	x 8	x 4	20.50	26.25	15	3.00
10916	6	x 8	x 6	23.00	28.75	15.5	3.00
10906	6	x12	x 3	23.75	30.00	20	4.25
10908	6	x12	x 4	27.50	33.75	19	4.25
10910	6	x12	x 6	50.00	56.25	24	4.25
10904	8	x 8	x 6	29.25	37.50	18	3.75
10764	8	x12	x 6	43.75	57.50	28	4.25
10911	12	x12	x 6	65.00	82.50	52	5.00
10771	12	x18	x12	150.00	175.00	130	5.75
10785	12	x24	x12	172.50	212.50	113	12.25

Unflanged Type

10861	4	x 4	x 2	4.15	5.65	2.5	.90
10862	4	x 4	x 3	4.65	6.25	3.5	.90
10703	4	x 6	x 4	8.15	11.25	7.75	1.25
10962	6	x 6	x 3	9.50	13.25	7.5	2.00
10868	6	x 6	x 4	11.25	15.00	8.5	2.00
10964	6	x 6	x 6	15.00	18.75	14.5	2.00
10871	6	x 8	x 3	12.50	16.25	10.5	2.50
10872	6	x 8	x 4	15.00	18.75	10.5	2.50
10874	6	x 8	x 6	18.75	22.50	15.5	2.50
10880	6	x12	x 3	19.50	18.75	18	4.15
10968	6	x12	x 4	22.00	31.25	21	4.15
10882	6	x12	x 6	24.50	33.75	27	4.15
10718	8	x12	x 6	38.40	45.00	37	5.00
10969	12	x12	x 6	43.00	55.00	39	6.50

WEATHERPROOF CAST IRON JUNCTION BOXES

Approved by Underwriters' Laboratories



Sturdy boxes built for rugged service. Hinged covers, supplied with thumb nuts on all 4 sides, making a watertight weatherproof job when tightened. All weatherproof type boxes are furnished with gaskets as standard equipment.

Cat. No.	Size Inches			Wt. Lbs. Box	Wt. Lbs. Cover	Price Each
10503	6	x 8	x 4	15	4	$50.00
10511	8	x 8	x 6	10.3	4.5	62.50
10538	8	x12	x 6	10	8	90.00
10539	12	x12	x 6	23	12	120.00
10535	12	x16	x 8	160	26	175.00
10547	18	x18	x 8	85	29	240.00

T & B WATERTIGHT FLOOR BOXES

No. 1700 SERIES—NON-ADJUSTABLE

Approved by Underwriters' Laboratories



No. 1700

Cover plate and bell nozzle are smooth polished, lacquered heavy bronze forgings. Boxes Nos. 1700 and 1701 furnished with receptacle (rating 10-amp., 250-volt; or 15-amp., 125-volt), bell nozzle and blank cover disc. No. 1703 has no receptacle or bell nozzle and is supplied with a flat cover disc drilled and tapped for ½-inch, complete with plug.

Standard conduit drilling is four holes on sides and two on bottom, tapped for ½-inch, with four holes plugged. ¾-inch will be supplied, when specified, at no extra charge.

Dimensions: Height 3 3/16 inches; diameter of cover plate 3¾ inches. Unit quantity, 1.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Each	Price Each
1700†	2-Wire Box	25	2	$8.25
1701	3-Wire Box	10	2¼	11.30
1703	Telephone or Signal Box	25	2	6.25

†Attachment Plug furnished only when specified —extra charge.

ADJUSTABLE WATERTIGHT FLOOR BOXES

Approved by Underwriters' Laboratories

These Adjustable Floor Boxes have a ⅝-inch vertical and 10° angular adjustment. The covers are metallically grounded to the box.



No. 1760

Boxes Nos. 1760 and 1761 furnished with receptacle (rating 10 amp., 250 volt or 15 amp., 125 volt) and blank cover disc. No. 1763 has no receptacle and is supplied with a flat cover disc drilled and tapped for ½-inch conduit, complete with plug.

Standard conduit drilling is four holes on sides, tapped for ½-inch conduit with two holes plugged. ¾-inch will be supplied, when specified, at no extra charge. Standard package: $120.00 list value.

Shallow Series

Cat. No.	Description	Unit Pkg.	Wt. Lbs. Each	Price Each
1763	Telephone or Signal	1	4	$13.75
1760	Two Wire	1	4¼	15.00
1761	Three Wire	1	4½	18.75

PARTS AND ACCESSORIES

Cat. No.	Description	Price Each
1706	Cover	$2.30
1707	Disc	1.50
1708	Nozzle	1.35
1709	Disc with ½-inch hole and plug	2.30
1711	Large Rubber Gasket	.30
1712	Small Rubber Gasket	.30
1714	Supporting Plate with 2 Screws	.90
1415	Two Wire Recp. with 2 Screws	1.50
1716	Three Wire Recp. with 2 Screws	4.00
1737	Adjusting Ring and Screws	3.50
1738	Adjusting Rubber Gasket	1.30
1739	Brushed Triple Nozzle	2.50
1740	Shallow Box Body	8.00
1741	Tin Box Protector	1.30
1746	¾-inch Plug with screw-driver slot	.30
1747	Extension Piece, ½" size, 4" long	3.00
1748	½" Plug with screw-driver slot	.12
1749	1" Plug with screw-driver slot	.40
1816	Square Cover	7.00

LATROBE FLOOR BOXES

NO. 330 TOM THUMB UTILITY OUTLET

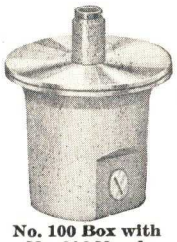


For use in wood floors, mantels, baseboards, show windows, and other installations free from moisture or mechanical injury. Specially designed to furnish a neat, compact, general purpose outlet. 2½ inches in diameter, 2 inches high. Fitted with 10 ampere, 115 volt bakelite receptacle.

Price, No. **330** Tom Thumb Utility Outlet.....**$1.05**

NO. 100 NON-ADJUSTABLE WATERTIGHT BOX

Furnished complete with No. 206 Stem Nozzle but without receptacle. Cover plate is 3½-inch diameter with ½-inch flush brass plug. Used as telephone outlet or junction box. May be ordered without Stem Nozzle if desired.


No. 100 Box with No. 206 Nozzle

Price, No. **100** Watertight Box .....each **$3.75**

NO. 101 WATERTIGHT BOX

This Box is exactly the same as the No. 100 Box except that the No. 206 Stem Nozzle is omitted. No. 206, No. 272, No. 280 and similar Nozzles may be ordered separately as required.

Standard package, 25 boxes. Package weight, approximately 44 pounds.

Price, No. **101** Watertight Box.....each **$3.00**

NO. 110 NON-ADJUSTABLE WATERTIGHT BOX


No. 110 Box

Cut-away illustration of No. 110 Box shows how tapered unit receptacle fits tapered opening in top of box body.

No. 110 Box is unique in design, has fewest number of parts, and is easy to install. No. 208 Receptacle is designed to eliminate screws, receptacle straps, filler plates, complicated assembly, etc. Cover plates are 3½-inch diameter.

Cat. No.	Description	Price Each
110	Box with Receptacle and Bell Nozzle	$4.00

NO. 112 WATERTIGHT BOX

This box is similar to No. 110 box but is furnished with 10 ampere, 3-wire polarity receptacle, attachment plug and No. 246 nozzle. Extra charge for brass flange rings if required. Standard package, 25 boxes.

Price, No. **112** Watertight Box.....each **$4.95**

NO. 113 WATERTIGHT BOX

Similar to No. 112 box but is furnished with 20 ampere, 2-wire polarity receptacle, attachment plug and No. 246 bell nozzle. Extra charge for brass flange rings if required. Standard package, 25 boxes.

Price, No. **113** Watertight Box.....each **$6.00**

R & S WATERTIGHT FLOOR BOXES

NON-ADJUSTABLE—ROUND TYPE



No. 2580

For wood flooring or where adjustable type is not required. Furnished with or without convenience type receptacles.

Maximum Outlets — Nos. 2580 and 2590 drilled and tapped four ½-inch outlets, 3 outlets plugged. No. 2581 is the same as 2580 and 2590; No. 466, ¾-inch; No. 366 ¾-inch; No. 367, 2-inch. Specify size and location when ordering.

Furnished Complete With	Floor Plate Dia. In.	Box Height In.	Cat. No.	List Each
2 Pole receptacle	3½	3¼	**2580**	.....
3 Pole receptacle	3½	3¼	**2581**	.....
*½-inch flush cap	3½	3¼	**2590**	.....
*½-inch flush cap	4⅛	3⅝	**466**	.....
*½-inch flush cap	5	3⅞	**366**	.....
*½-inch flush cap	6¾	4⅝	**367**	.....

*Covers can be furnished with ¾-inch, 1-inch, or 2⅛-inch flush caps, if specified.

ADJUSTABLE—ROUND TYPE

Permanent adjustment is provided by means of leveling screws permitting 15° angular and ⅝ inch vertical adjustment.

These boxes will accommodate all standard convenience receptacles. Can also be made to accommodate Russell & Stoll two, three and four-pole receptacles up to 30 amperes on special order.

Furnished without receptacles, except as noted.

Maximum Outlets — Nos. 2502, 2503, 2502HD and 2503HD — 1½-inch; Nos. 2504 and 2505 — ¾-inch. Specify size and location when ordering.

Enclosures — Boxes, cast iron with corrosion resisting finish. Covers and flanges brass.



No. 2503



No. 2505
Shallow

Furnished Complete With	Flange Dia. In.	Min. Height In.	Cat. No.	List Each
½-inch cap	4¼	3¾	**2502**	.....
2⅛-inch cap	4¼	3¾	**2503**	.....
½-inch cap	4⅛	4⅜	**2502HD**	.....
2⅛-inch cap	4⅛	4⅜	**2503HD**	.....
"T" slot recept. and 2⅛-inch cap	3⅜	2¾	**2504**	.....
½-inch flush cap	3⅜	2¾	**2505**	.....
"T" slot receptacle only for 2504	.....	.....	**2509**	.....

R & S WATERTIGHT FLOOR BOXES

ADJUSTABLE—RECTANGULAR

One to Five Gang



No. 2512
With No. 2537 and 2538 Cover

Box: Cast iron, corrosion resisting finish. Furnished complete with No. 2537 (½-inch cap) cover or No. 2538 (2⅛-inch cap) cover. Specify when ordering.

Adjustment: ⅝ inch vertical and ample angular. Specify size and location when ordering.

No. of Gangs	Length Inches	Cat. No.	List Each
Single	4¾	**2511**	.....
Two	7¾	**2512**	.....
Three	10¾	**2513**	.....
Four	13¾	**2514**	.....
Five	16¾	**2515**	.....

R & S COMBINATION FLOOR EXTENSION SETS

15 Amp., 125 Volts—Two and Three Wire and Low Tension





These extensions are suitable for floor boxes and all underfloor-duct systems. Used in banks, offices, libraries, etc., for connection of desk lamps, dictaphones, adding machines, desk pads, etc.

Molded phenolic composition interiors mounted in forged brass casing tapped for ½ or ¾-inch extension stem as desired.



No. 3000



No. 3008

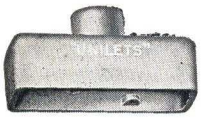
Standard height 6 inches overall. Can be furnished in different heights upon request. Extension sets can be supplied complete or in parts.

Standard finish of fittings shown on this page, brush brass. Can be supplied in other finishes. Prices upon request.

Description	Cat. No.	List Each
2-W., 15-amp., 125-V., duplex Combination set for ½-inch floor outlet	**3000**	**$5.00**
Same for ¾-inch floor outlet	**3001**	**5.65**
3-W., 15-amp., 125-V., duplex Combination set for ½-inch floor outlet	**3020**	**8.90**
Same for ¾-inch floor outlet	**3021**	**9.60**
Low tension combination set for ½-inch floor outlet	**3008**	**4.40**
Same for ¾-inch floor outlet	**3009**	**5.05**
2-W., 15-amp., 125-V., duplex head only for ½-inch extension	**2696**	**3.10**
Same for ¾-inch extensions	**2697**	**3.25**
3-W., 15-amp., 125-V., duplex head only for ½-inch extension	**2570**	**7.00**
Same for ¾-inch extension	**2569**	**7.20**
Low tension head only for ½-inch extensions	**2686**	**2.50**
Same for ¾-inch extensions	**2687**	**2.75**
3½-inch extensions ½-inch pipe size threaded for flange	**1921**	**.80**
Same for ¾-inch iron pipe size	**1956**	**1.30**
Locking flange for ½-inch iron pipe size extensions	**2619**	**1.10**
Same for ¾-inch I.P. extensions	**2620**	**1.10**

RECTANGULAR THREADED UNILET BODIES

TYPE A



Cadmium finish. Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4120	⅜	50	13	•
9000	½	100	53	•
9020	¾	50	36	•
9040	1	20	23	•
9060	1¼	20	42	•
9080	1½	10	24	•
9100	2	5	22	•
9120	2½	5	41	•
9140	3	5	48	•
9160	3½	5	85	•
9180	4	5	98	•
90220	5	1	28	•
90240	6	1	38	•

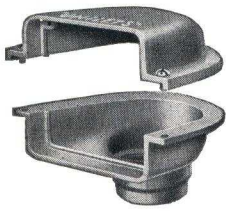
TYPE B



Cadmium finish. Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4126	⅜	50	13	•
9006	½	100	52	•
9026	¾	50	36	•
9046	1	20	23	•
9066	1¼	20	41	•
9086	1½	10	23	•
9106	2	5	18	•
9126	2½	5	42	•
9146	3	5	47	•
9166	3½	5	115	•
9186	4	5	103	•

TYPE BE



Type BE Unilet Bodies for 4½ and 5-inch conduit have cover openings for 4-inch covers. Unilet bodies for 6-inch conduit, take special covers; specify number of wire holes required.

Cadmium finish.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
3101	1¼	25	80	•
3121	1½	10	53	•
3141	2	5	41	•
3161	2½	5	85	•
3181	3	5	88	•
3201	3½	5	180	•
3221	4	5	180	•
3261	5	1	40	•
3281	6	1	75	•

TYPE C



Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4122	⅜	50	15	•
9002	½	100	56	•
9022	¾	50	38	•
9042	1	20	26	•
9062	1¼	20	44	•
9082	1½	10	26	•
9102	2	5	24	•
9122	2½	5	47	•
9142	3	5	57	•
9162	3½	5	90	•
9182	4	5	115	•

TYPE E



Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4121	⅜	50	13	•
9001	½	100	49	•
9021	¾	50	37	•
9041	1	20	24	•
9061	1¼	20	41	•
9081	1½	10	24	•
9101	2	5	22	•
9121	2½	5	40	•
9141	3	5	47	•
9161	3½	5	85	•
9181	4	5	95	•

•See Price List

RECTANGULAR THREADED UNILET BODIES

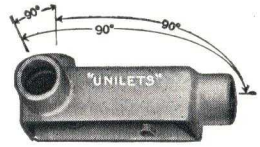
TYPE F



Cadmium finish. Take rectangular covers and receptacles. Entrance fittings larger than 1 inch are listed on another page.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
10	½	50	74	•
20	¾	50	81	•
30	1	20	57	•

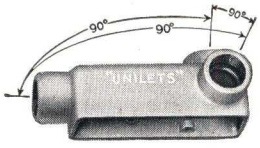
TYPE LBL



Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4700	½	50	30	•
4701	¾	25	22	•
4702	1	25	35	•
4703	1¼	10	25	•
4704	1½	10	28	•
4705	2	5	26	•

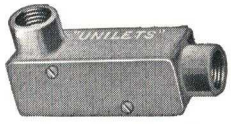
TYPE LBR



Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4620	½	50	30	•
4621	¾	25	22	•
4622	1	25	35	•
4623	1¼	10	25	•
4624	1½	10	28	•
4625	2	5	26	•

TYPE LRL



Type LRL Unilet body has double opening with blank cover on one side. Can be used either as Type LL or LR by changing cover.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
3205R	½	100	66	•
3225R	¾	50	45	•
3245R	1	20	29	•
3265R	1¼	20	45	•
3285R	1½	10	26	•
3305R	2	5	26	•
3325R	3	5	45	•
3345R	3	5	54	•
3365R	3½	5	125	•
3385R	4	5	115	•

TYPE LB



Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4128	⅜	50	15	•
9008	½	100	58	•
9028	¾	50	39	•
9048	1	20	27	•
9068	1¼	20	46	•
9088	1½	10	25	•
9108	2	5	25	•
9128	2½	5	46	•
9148	3	5	55	•
9168	3½	5	100	•
9188	4	5	110	•

TYPE LF



Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
9200	½	100	86	•
9220	¾	50	63	•
9240	1	20	39	•
9260	1¼	20	66	•
9280	1½	10	41	•
9300	2	5	32	•
9320	2½	5	55	•
9340	3	5	63	•
9360	3½	5	109	•
9380	4	5	120	•

•See Price List

RECTANGULAR THREADED UNILET BODIES



TYPE LL

Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4125-L	⅜	50	15	•	9105-L	2	5	22	•
9005-L	½	100	56	•	9125-L	2½	5	45	•
9025-L	¾	50	42	•	9145-L	3	5	54	•
9045-L	1	20	25	•	9165-L	3½	5	125	•
9065-L	1¼	20	44	•	9185-L	4	5	115	•
9085-L	1½	10	26	•					

TYPE LR

Cadmium finish.
Take rectangular covers and receptacles.



Cat. No.	Size In	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4125-R	⅜	50	15	•	9105-R	2	5	22	•
9005-R	½	100	56	•	9125-R	2½	5	45	•
9025-R	¾	50	42	•	9145-R	3	5	54	•
9045-R	1	20	25	•	9165-R	3½	5	125	•
9065-R	1¼	20	44	•	9185-R	4	5	115	•
9085-R	1½	10	26	•					

TYPE LBB



Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
3008	½	100	58	•	3068	1¼	20	46	•
3028	¾	50	39	•	3088	1½	10	25	•
3048	1	20	27	•	3108	2	5	22	•

TYPE LFB

Cadmium finish.
Take rectangular covers and receptacles.



Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
3009	½	100	58	•	3069	1¼	20	46	•
3029	¾	50	39	•	3089	1½	10	25	•
3049	1	20	27	•	3109	2	5	22	•



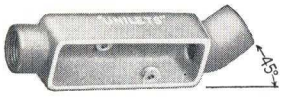
TYPE LLB

Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
3005-L	½	100	58	•	3065-L	1¼	25	46	•
3025-L	¾	50	39	•	3085-L	1½	10	25	•
3045-L	1	50	27	•	3105-L	2	5	22	•

TYPE LRB

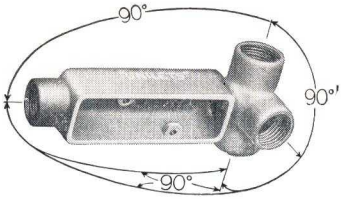
Cadmium finish.
Take rectangular covers and receptacles.



Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
3005-R	½	100	58	•	3065-R	1¼	25	46	•
3025-R	¾	50	39	•	3085-R	1½	10	25	•
3045-R	1	50	27	•	3105-R	2	5	22	•

•See Price List

RECTANGULAR THREADED UNILET BODIES



TYPE LFT

Cadmium finish.
Take rectangular covers and receptacles.

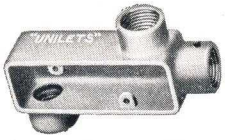
Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4745	½	50	40	•	4747	1	25	37	•
4746	¾	25	24	•					

TYPE LLE

Cadmium finish.
Take rectangular covers and receptacles.



Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4240	½	50	30	•	4243	1¼	10	25	•
4241	¾	25	22	•	4244	1½	10	14	•
4242	1	25	35	•	4245	2	5	14	•



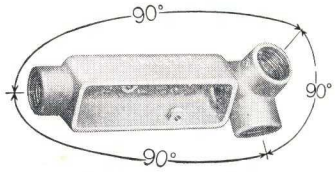
TYPE LRE

Cadmium finish.
Take rectangular covers and receptacles.

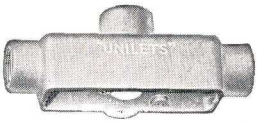
Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4250	½	50	30	•	4253	1¼	10	25	•
4251	¾	25	22	•	4254	1½	10	14	•
4252	1	25	35	•	4255	2	5	14	•

TYPE LU

Cadmium finish.
Take rectangular covers and receptacles.



Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4720	½	50	30	•	4722	1	25	35	•
4721	¾	25	22	•					



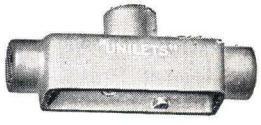
TYPE TA

Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
3050	½	50	34	•	3053	1¼	10	26	•
3051	¾	50	48	•	3054	1½	10	31	•
3052	1	25	30	•	3055	2	5	31	•

TYPE TB

Cadmium finish.



Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
4140	⅜	50	17	•	9660	1¼	10	26	•
9600	½	100	66	•	9670	1½	10	31	•
9620	¾	50	49	•	9700	2	5	27	•
9625	¾-1-¾	50	61	•	9720	2½	5	50	•
9630	1-½-1	20	28	•	9740	3	5	63	•
9635	1-¾-1	20	29	•	9760	3½	5	103	•
9640	1	20	32	•	9780	4	5	123	•

•See Price List

RECTANGULAR THREADED UNILET BODIES



TYPE T
(Regular)

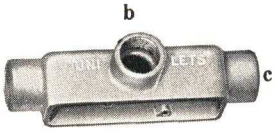
Cadmium finish.
Take rectangular covers and receptacles.

Cat No.	Size In.	Std. Pkg.	Wt.	Price Each
4123	⅜	50	18	•
9003	½	100	61	•
9023	¾	50	44	•
9043	1	20	28	•
9063	1¼	20	49	•
9083	1½	10	27	•

Cat. No.	Size In.	Std. Pkg.	Wt.	Price Each
9103	2	10	27	•
9123	2½	5	50	•
9143	3	5	63	•
9163	3½	5	103	•
9183	4	5	123	•

TYPE T
(Special)

Cadmium finish.
Take rectangular covers and receptacles.



Cat. No.	Size, Inches A	B	C	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
33000	½	¾	½	100	90	•
33050	½	¾	1	20	21	•
33001	½	1	½	100	105	•
33002	¾	½	¾	50	49	•
33003	¾	1	¾	50	61	•
33006	¾	1¼	¾	50	102	•
33038	¾	1½	¾	50	115	•
33004	1	½	1	20	28	•
33060	1	¾	¾	20	21	•
33005	1	¾	1	20	29	•
33007	1	1¼	1	20	43	•
33008	1	1½	1	20	50	•
33009	1	2	1	20	88	•
33012	1¼	½	1¼	20	42	•
33013	1¼	¾	1¼	20	44	•
33014	1¼	1	1¼	20	47	•
33019	1¼	1½	1¼	20	57	•
33039	1¼	2	1¼	20	93	•
33015	1½	½	1½	10	29	•
33016	1½	¾	1½	10	26	•
33017	1½	1	1½	10	26	•
33018	1½	1¼	1½	10	28	•
33040	1½	2	1½	10	49	•
33025	2	½	2	5	22	•
33026	2	¾	2	5	23	•
33027	2	1	2	5	24	•
33028	2	1¼	2	5	25	•
33029	2	1½	2	5	26	•
33030	2½	1½	2½	5	43	•
33031	2½	2	2½	5	45	•
33032	3	2	3	5	57	•
33033	3	2½	3	5	59	•
33034	3½	2½	3½	5	129	•
33035	3½	3	3½	5	131	•
33036	4	3	4	5	130	•
33037	4	3½	4	5	131	•

•See Price List

RECTANGULAR THREADED UNILET BODIES



TYPE TL

Cadmium finish.
Take rectangular covers and receptacles.

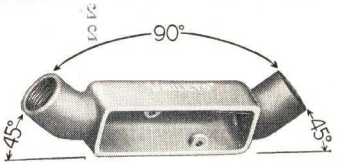
Cat. No.	Size, Inches A	B	C	Std. Pkg.	Wt.Lb. Std.Pkg.	Price Each
9009-L	½	½	½	100	64	•
9029-L	½	¾	½	100	90	•
9049-L	½	1	½	100	102	•
9069-L	¾	½	¾	50	49	•
9089-L	¾	¾	¾	50	44	•
9090-L	¾	1	¾	50	61	•
9109-L	1	½	1	20	28	•
9129-L	1	¾	1	20	29	•
9149-L	1	1	1	20	28	•
9169-L	1¼	1¼	1¼	10	25	•
9189-L	1½	1½	1½	10	27	•

TYPE TR

Cadmium finish.
Take rectangular covers and receptacles.



Cat. No.	Size, Inches A	B	C	Std. Pkg.	Wt.Lb. Std.Pkg.	Price Each
9009-R	½	½	½	100	64	•
9029-R	½	¾	½	100	90	•
9049-R	½	1	½	100	102	•
9069-R	¾	½	¾	50	49	•
9089-R	¾	¾	¾	50	44	•
9090-R	¾	1	¾	50	61	•
9109-R	1	½	1	20	28	•
9129-R	1	¾	1	20	29	•
9149-R	1	1	1	20	28	•
9169-R	1¼	1¼	1¼	10	25	•
9189-R	1½	1½	1½	10	27	•



TYPE U

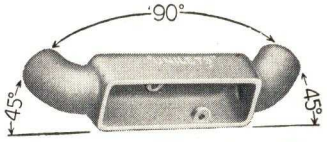
Cadmium finish.
Take rectangular covers and receptacles.

Cat No.	Size In.	Std. Pkg.	Wt.	Price Each
3006	½	100	60	•
3026	¾	50	42	•
3046	1	20	29	•

Cat. No.	Size In.	Std. Pkg.	Wt.	Price Each
3066	1¼	20	47	•
3086	1½	10	28	•
3106	2	5	27	•

TYPE UB

Cadmium finish.
Take rectangular covers and receptacles.



Cat No.	Size In.	Std. Pkg.	Wt.	Price Each
3007	½	100	60	•
3027	¾	50	42	•
3047	1	20	29	•

Cat. No.	Size In.	Std. Pkg.	Wt.	Price Each
3067	1¼	20	47	•
3087	1½	10	28	•
3107	2	5	27	•



TYPE XA

Cadmium finish.
Take rectangular covers and receptacles.

Cat No.	Size In.	Std. Pkg.	Wt.	Price Each
4710	½	50	27	•
4711	¾	50	36	•
4712	1	25	30	•

Cat. No.	Size In.	Std. Pkg.	Wt.	Price Each
4713	1¼	20	47	•
4714	1½	10	32	•
4715	2	5	22	•

•See Price List

RECTANGULAR THREADED UNILET BODIES



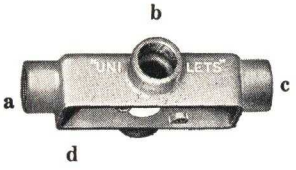
TYPE X (Regular)

Cadmium finish.
Take rectangular covers and receptacles.

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt	Price Each
4124	⅜	50	21	•	9104	2	5	31	•
9004	½	75	52	•	9124	2½	5	63	•
9024	¾	50	48	•	9144	3	5	68	•
9044	1	20	30	•	9164	3½	5	123	•
9064	1¼	20	54	•	9184	4	5	133	•
9084	1½	10	31	•	.....	.....	--	----	.....

TYPE X (Special)

Cadmium finish.
Take rectangular covers and receptacles.



Cat. No.	Size, Inches A	B	C	D	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
34000	¾	½	½	½	50	43	•
34001	¾	½	¾	½	50	44	•
34003	1	½	¾	½	20	52	•
34004	1	¾	¾	¾	20	26	•
34005	1	½	1	½	20	26	•
34006	1	¾	1	¾	20	27	•
34007	1¼	½	1	½	20	42	•
34009	1¼	¾	¾	¾	20	41	•
34010	1¼	¾	1	¾	20	46	•
34011	1¼	1	1	1	20	47	•
34012	1¼	½	1¼	½	20	56	•
34013	1¼	¾	1¼	¾	20	58	•
34015†	1½	½	1¼	½	10	26	•
34016	1½	¾	1¼	¾	10	27	•
34020	1½	¾	1½	¾	10	26	•
34023	1½	1	1	1	10	27	•
34021	1½	1	1¼	1	10	27	•
34022	1½	1	1½	1	10	27	•
34024	2	½	1½	½	5	23	•
34025	2	¾	1½	¾	5	24	•
34026	2	1	1½	1	5	24	•
34027	2	1	2	1	5	24	•
34028	2½	1	1½	1	5	50	•
34029	2½	1½	1½	1½	5	51	•
34030	2½	1½	2½	1½	5	46	•
34031	3	1½	2	1½	5	53	•
34032	3	2	2½	2	5	54	•
34033	3½	2	2½	2	5	118	•
34036	3½	2½	3	2½	5	119	•
34035	4	2½	3	2½	5	119	•
34037	4	3	3½	3	5	120	•

†The body of this fitting is the same size as Unilet bodies designed for 2-inch Threadless Thin-Wall Conduit, therefore take covers for these Unilets as listed on following pages.

•See Price List

RECTANGULAR NO-THREAD UNILET BODIES

Cadmium Finish

Take Rectangular Covers and Receptacles

TYPES A AND B NO-THREAD UNILETS



Type A



Type B

Type A

For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
.....	----	•	⅜	100	41T20	36	•
90N00	57	•	½	100	90T00	57	•
90N20	40	•	¾	50	90T20	40	•
90N40	27	•	1	20	90T40	27	•
90N60	46	•	1¼	20	90T60	46	•
90N80	27	•	1½	10	90T80	27	•
91N00	25	•	2	5	91T00	25	•
91N20	44	•	2½	5	.....	----	.....
91N40	53	•	3	5	.....	----	.....
91N60	88	•	3½	5	.....	----	.....
91N80	90	•	4	5	.....	----	.....

Type B

.....	----	•	⅜	100	41T26	36	•
90N06	55	•	½	100	90T06	55	•
90N26	38	•	¾	50	90T26	38	•
90N46	26	•	1	20	90T46	26	•
90N66	43	•	1¼	20	90T66	43	•
90N86	26	•	1½	10	90T86	26	•
91N96	25	•	2	5	91T06	25	•
91N26	48	•	2½	5	.....	----	.....
91N46	53	•	3	5	.....	----	.....
91N66	90	•	3½	5	.....	----	.....
91N86	95	•	4	5	.....	----	.....

TYPES C AND E NO-THREAD UNILETS



Type C



Type E

Type C

For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
.....	----	•	⅜	100	41T22	39	•
90N02	60	•	½	100	90T02	60	•
90N22	43	•	¾	50	90T22	43	•
90N42	31	•	1	20	90T42	31	•
90N62	53	•	1¼	20	90T62	53	•
90N82	32	•	1½	10	90T82	32	•
91N02	29	•	2	5	91T02	29	•
91N22	52	•	2½	5	.....	----	.....
91N42	63	•	3	5	.....	----	.....
91N62	92	•	3½	5	.....	----	.....
91N82	103	•	4	5	.....	----	.....

Type E

.....	----	•	⅜	100	41T21	36	•
90N01	57	•	½	100	90T01	57	•
90N21	36	•	¾	50	90T21	36	•
90N41	26	•	1	20	90T41	26	•
90N61	46	•	1¼	20	90T61	45	•
90N81	26	•	1½	10	90T81	26	•
91N01	25	•	2	5	91T01	25	•
91N21	44	•	2½	5	.....	----	.....
91N41	52	•	3	5	.....	----	.....
91N61	88	•	3½	5	.....	----	.....
91N81	88	•	4	5	.....	----	.....

•See Price List

RECTANGULAR NO-THREAD UNILET BODIES

Cadmium Finish

Take Rectangular Covers and Receptacles

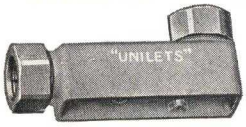
TYPE LRL NO-THREAD UNILETS



Type LRL Unilet body has double opening with blank cover on one side and can be used either as Type LL or LR.

For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
32N05R	70	•	½	100	32T05R	70	•
32N25R	48	•	¾	50	32T25R	48	•
32N45R	33	•	1	20	32T45R	33	•
32N65R	50	•	1¼	20	32T65R	50	•
32N85R	31	•	1½	10	32T85R	31	•
33N05R	27	•	2	5	33T05R	27	•
33N25R	55	•	2½	5	.....	....	....
33N45R	62	•	3	5	.....	....	....
33N65R	103	•	3½	5	.....	....	....
33N85R	110	•	4	5	.....	....	....

TYPES LB AND LF NO-THREAD UNILETS



Type LB



Type LF

Type LB

For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
.....	....	....	⅜	50	41T28	39	•
90N08	62	•	½	100	90T08	62	•
90N28	47	•	¾	50	90T28	47	•
90N48	33	•	1	20	90T48	33	•
90N68	55	•	1¼	20	90T68	55	•
90N88	32	•	1½	10	90T88	32	•
91N08	30	•	2	5	91T08	30	•
91N28	55	•	2½	5	.....	....	....
91N48	63	•	3	5	.....	....	....
91N68	105	•	3½	5	.....	....	....
91N88	110	•	4	5	.....	....	....

Type LF

.....	....	....	⅜	50	42T10	41	•
92N00	92	•	½	100	92T00	92	•
92N20	64	•	¾	50	92T20	64	•
92N40	46	•	1	20	92T40	46	•
92N60	74	•	1¼	20	92T60	74	•
92N80	45	•	1½	10	92T80	45	•
93N00	44	•	2	5	93T00	44	•



TYPE LL NO-THREAD UNILETS

For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
.....	....	....	⅜	50	41T25L	39	•
90N05L	64	•	½	100	90T05L	64	•
90N25L	47	•	¾	50	90T25L	47	•
90N45L	33	•	1	20	90T45L	33	•
90N65L	54	•	1¼	20	90T65L	54	•
90N85L	32	•	1½	10	90T85L	32	•
91N05L	30	•	2	5	91T05L	30	•
91N25L	55	•	2½	5	.....	....	....
91N45L	62	•	3	5	.....	....	....
91N65L	103	•	3½	5	.....	....	....
91N85L	110	•	4	5	.....	....	....

•See Price List

RECTANGULAR NO-THREAD UNILET BODIES

Cadmium Finish

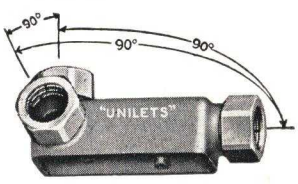
Take Rectangular Covers and Receptacles



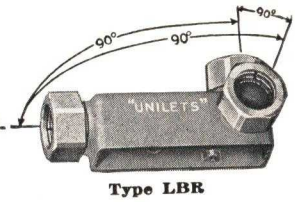
TYPE LR NO-THREAD UNILETS

For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
.....	....	....	⅜	50	41T25R	39	•
90N05R	64	•	½	100	90T05R	64	•
90N25R	47	•	¾	50	90T25R	47	•
90N45R	33	•	1	20	90T45R	33	•
90N65R	54	•	1¼	20	90T65R	54	•
90N85R	32	•	1½	10	90T85R	32	•
91N05R	30	•	2	5	91T05R	30	•
91N25R	55	•	2½	5	.....	....	....
91N45R	62	•	3	5	.....	....	....
91N65R	103	•	3½	5	.....	....	....
91N85R	110	•	4	5	.....	....	....

TYPES LBL AND LBR NO-THREAD UNILETS



Type LBL



Type LBR

Type LBL

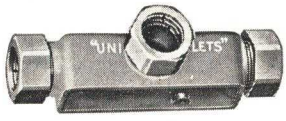
For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
47N00	36	•	½	50	47T00	36	•
47N01	26	•	¾	25	47T01	26	•
47N02	40	•	1	20	47T02	40	•
47N03	30	•	1¼	10	47T03	30	•
47N04	38	•	1½	10	47T04	38	•
47N05	33	•	2	5	47T05	33	•

Type LBR

46N20	36	•	½	50	46T20	36	•
46N21	26	•	¾	25	46T21	26	•
46N22	40	•	1	20	46T22	40	•
46N23	30	•	1¼	10	46T23	30	•
46N24	38	•	1½	10	46T24	38	•
46N25	33	•	2	5	46T25	33	•

TYPE T NO-THREAD UNILETS

(Regular)



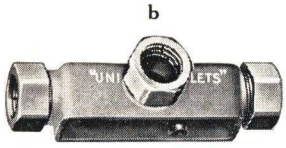
For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
.....	....	....	⅜	50	41T23	43	•
90N03	73	•	½	100	90T03	73	•
90N23	53	•	¾	50	90T23	53	•
90N43	39	•	1	20	90T43	39	•
90N63	60	•	1¼	20	90T63	60	•
90N83	39	•	1½	10	90T83	39	•
91N03	34	•	2	5	91T03	34	•
91N23	64	•	2½	5	.....	....	....
91N43	73	•	3	5	.....	....	....
91N63	117	•	3½	5	.....	....	....
91N83	120	•	4	5	.....	....	....

•See Price List

RECTANGULAR NO-THREAD UNILET BODIES

Cadmium Finish

Take Rectangular Covers and Receptacles



TYPE T NO-THREAD UNILETS

(Special)

Sizes of hubs are indicated by sequence of letters.

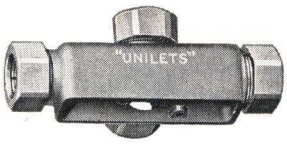
For Rigid Conduit (Heavy-Wall) Cat. No.	Wt. Lbs. Std.Pkg.	Price Each	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt. Lbs Std.Pkg.	Price Each
			½-¾-½-Inch Hubs			
33N000	100	•	100	33T000	100	•
			½-¾-1-Inch Hubs			
33N050	31	•	20	33T050	31	•
			½-1-½-Inch Hubs			
33N001	157	•	100	33T001	157	•
			¾-½-¾-Inch Hubs			
33N002	53	•	50	33T002	53	•
			¾-1-¾-Inch Hubs			
33N003	84	•	50	33T003	84	•
			¾-1¼-¾-Inch Hubs			
33N006	128	•	50	33T006	128	•
			¾-1½-¾-Inch Hubs			
33N038	140	•	50	33T038	140	•
			1-½-1-Inch Hubs			
33N004	32	•	20	33T004	32	•
			1-¾-¾-Inch Hubs			
33N060	31	•	20	33T050	31	•
			1-¾-1-Inch Hubs			
33N005	34	•	20	33T005	34	•
			1-1¼-1-Inch Hubs			
33N007	58	•	20	33T007	58	•
			1-1½-1-Inch Hubs			
33N008	62	•	20	33T008	62	•
			1-2-1-Inch Hubs			
33N009	64	•	20	33T009	64	•
			1¼-½-1¼-Inch Hubs			
33N012	56	•	20	33T012	56	•
			1¼-¾-1¼-Inch Hubs			
33N013	52	•	20	33T013	52	•
			1¼-1-1¼-Inch Hubs			
33N014	60	•	20	33T014	60	•
			1¼-1½-1¼-Inch Hubs			
33N019	33	•	10	33T019	33	•
			1¼-2-1¼-Inch Hubs			
33N039	16	•	5	33T039	16	•
			1½-½-1½-Inch Hubs			
33N015	35	•	10	33T015	35	•
			1½-¾-1½-Inch Hubs			
33N016	35	•	10	33T016	35	•
			1½-1-1½-Inch Hubs			
33N017	33	•	10	33T017	33	•
			1½-1¼-1½-Inch Hubs			
33N018	35	•	10	33T018	35	•
			1½-2-1½-Inch Hubs			
33N040	32	•	5	33T040	32	•
			2-½-2-Inch Hubs			
33N025	29	•	5	33T025	29	•
			2-¾-2-Inch Hubs			
33N026	31	•	5	33T026	31	•
			2-1-2-Inch Hubs			
33N027	32	•	5	33T027	32	•
			2-1¼-2-Inch Hubs			
33N028	34	•	5	33T028	34	•
			2-1½-2-Inch Hubs			
33N029	36	•	5	33T029	36	•

•See Price List

RECTANGULAR NO-THREAD UNILET BODIES

Cadmium Finish

Take Rectangular Covers and Receptacles



TYPE TA NO-THREAD UNILETS

For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
30N50	28	•	½	30	30T50	28	•
30N51	45	•	¾	30	30T51	45	•
30N52	45	•	1	20	30T52	45	•
30N53	17	•	1¼	5	30T53	17	•
30N54	21	•	1½	5	30T54	21	•
30N55	42	•	2	5	30T55	42	•

TYPE TB NO-THREAD UNILETS



For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size Inches	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
96N00	39	•	½	50	96T00	39	•
96N20	29	•	¾	25	96T20	29	•
96N40	29	•	1	15	96T40	29	•
96N60	31	•	1¼	10	96T60	31	•
96N80	39	•	1½	10	96T80	39	•
97N00	34	•	2	5	97T00	34	•



TYPE TL NO-THREAD UNILETS

For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
90N09-L	39	•	½	50	90T09-L	39	•
90N89-L	29	•	¾	25	90T89-L	29	•
91N49-L	40	•	1	20	91T49-L	40	•
91N69-L	30	•	1¼	10	91T69-L	30	•
91N89-L	39	•	1½	10	91T89-L	39	•

TYPE TR NO-THREAD UNILETS



For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
90N09-R	39	•	½	50	90T09-R	39	•
90N89-R	29	•	¾	25	90T89-R	29	•
91N49-R	40	•	1	20	91T49-R	40	•
91N69-R	30	•	1¼	10	91T69-R	30	•
91N89-R	39	•	1½	10	91T89-R	39	•

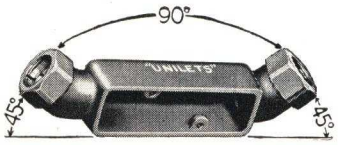
•See Price List

RECTANGULAR NO-THREAD UNILET BODIES

Cadmium Finish

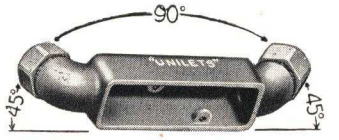
Take Rectangular Covers and Receptacles

TYPE U NO-THREAD UNILETS



For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
30N06	65	•	½	100	30T06	65	•
30N26	46	•	¾	50	30T26	46	•
30N46	33	•	1	20	30T46	33	•
30N66	58	•	1¼	20	30T66	58	•
30N86	39	•	1½	10	30T86	39	•
31N06	34	•	2	5	31T06	34	•

TYPE UB NO-THREAD UNILETS



For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
30N07	65	•	½	100	30T07	65	•
30N27	46	•	¾	50	30T27	46	•
30N47	33	•	1	20	30T47	33	•
30N67	58	•	1¼	20	30T67	58	•
30N87	39	•	1½	10	30T87	39	•
31N07	34	•	2	5	31T07	34	•

TYPE X NO-THREAD UNILETS (Regular)



For Rigid Conduit (Heavy-Wall) Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
.....	....	.....	⅜	50	41T24	27	•
90N04	68	•	½	75	90T04	68	•
90N24	65	•	¾	50	90T24	65	•
90N44	45	•	1	20	90T44	45	•
90N64	67	•	1¼	20	90T64	67	•
90N84	42	•	1½	10	90T84	42	•
91N04	42	•	2	5	91T04	42	•
91N24	65	•	2½	5	.....	....	.....
91N44	89	•	3	5	.....	....	.....
91N64	142	•	3½	5	.....	....	.....
91N84	150	•	4	5	.....	....	.....

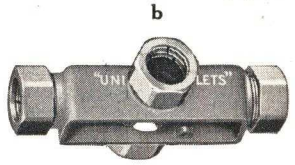
•See Price List

RECTANGULAR NO-THREAD UNILET BODIES

Cadmium Finish

Take Rectangular Covers and Receptacles

TYPE X NO-THREAD UNILETS (Special)



The sizes of hubs are indicated by sequence of letters.

For Rigid Conduit (Heavy-Wall Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Std. Pkg.	For Threadless Thin-Wall Conduit Cat. No.	Wt.Lbs. Std.Pkg.	Price Each
		¾-½-½-½-Inch Hubs				
34N000	53	•	50	34T000	53	•
		¾-½-¾-½-Inch Hubs				
34N001	58	•	50	34T001	58	•
		1-½-¾-½-Inch Hubs				
34N003	32	•	20	34T003	32	•
		1-¾-¾-¾-Inch Hubs				
34N004	34	•	20	34T004	34	•
		1-½-1-½-Inch Hubs				
34N005	34	•	20	34T005	34	•
		1-¾-1-¾-Inch Hubs				
34N006	36	•	20	34T006	36	•
		1¼-½-1-½-Inch Hubs				
34N007	53	•	20	34T007	53	•
		1¼-¾-¾-¾-Inch Hubs				
34N009	53	•	20	34T009	53	•
		1¼-¾-1-¾-Inch Hubs				
34N010	55	•	20	34T010	55	•
		1¼-1-1-1-Inch Hubs				
34N011	60	•	20	34T011	60	•
		1¼-½-1¼-½-Inch Hubs				
34N012	60	•	20	34T012	60	•
		1¼-¾-1¼-¾-Inch Hubs				
34N013	61	•	20	34T013	61	•
		1½-½-1½-½-Inch Hubs				
34N015	37	•	10	34T015	37	•
		1½-½-1¼-½-Inch Hubs				
34N016	38	•	10	34T016	38	•
		1½-¾-1½-¾-Inch Hubs				
34N020	38	•	10	34T020	38	•
		1½-1-1-1-Inch Hubs				
34N023	36	•	10	34T023	36	•
		1½-1-1¼-1-Inch Hubs				
34N021	38	•	10	34T021	38	•
		1½-1-1½-1-Inch Hubs				
34N022	38	•	10	34T022	38	•
		2-½-1½-½-Inch Hubs				
34N024	31	•	5	34T024	31	•
		2-¾-1½-¾-Inch Hubs				
34N025	32	•	5	34T025	32	•
		2-1-1½-1-Inch Hubs				
34N026	33	•	5	34T026	33	•
		2-1-2-1-Inch Hubs				
34N027	33	•	5	34T027	33	•

•See Price List

RECTANGULAR UNILET COVERS
FOR THREADED AND NO-THREAD UNILET BODIES

Porcelain, composition and metal rectangular covers of the same size may be assorted to make a standard package, regardless of style of cover.

1-WIRE COMPOSITION COVERS



For Unilet bodies with rectangular openings. Furnished with fastening screws. Standard and special 1-wire covers differ only in the diameter of wire hole. Standard 1-wire covers will be furnished at all times unless special covers are specified on the order.

Standard

Cat. No.	Size Cover, In.	Diam. Hole, In.	Std.Pkg. Assorted	Wt.Lb. Std.Pkg.	Price Each
611	⅜	13/32	200	20	•
601	½	13/32	200	7	•
621	¾	7/16	100	13	•
641	1	½	50	12½	•
661	1¼ or 1½	½	20	6	•
701	2	1 25/32	5	4	•
721	2½ or 3	2 5/8	5	8	•
761	3½ or 4	3¼	5	20	•
801	5	3¼	1	30	•
821	6	3¼	1	30	•

Special

601-S	½	5/8	200	20	•
621-S	¾	25/32	100	13	•
641-S	1	1	50	12½	•
661-S	1¼ or 1½	1⅜	20	6	•
701-S	2	½	5	4	•
721-S	2½ or 3	½	5	8	•
761-S	3½ or 4	½	5	20	•

2-WIRE COMPOSITION COVERS



For Unilet bodies with rectangular openings. Furnished with fastening screws.

Cat. No.	Size Cover, In.	Diam. Hole, In.	Std.Pkg. Assorted	Wt.Lb. Std.Pkg.	Price Each
612	⅜	5/16	200	7	•
602	½	5/16	200	20	•
622	¾	⅜	100	13	•
642	1	13/32	50	12½	•
662	1¼ or 1½	13/16	20	6	•
702	2	1	5	4	•
722	2½ or 3	1 7/16	5	8	•
762	3½ or 4	1 13/16	5	20	•
802	5	2¼	1	30	•
822	6	2¼	1	30	•



3-WIRE COMPOSITION COVERS

For Unilet bodies with rectangular openings. Furnished with fastening screws.

Cat. No.	Size Cover, In.	Diam. Hole, In.	Std.Pkg. Assorted	Wt.Lb. Std.Pkg.	Price Each
613	⅜	5/16	200	7	•
603	½	5/16	200	20	•
623	¾	⅜	100	13	•
643	1	13/32	50	12½	•
663	1¼ or 1½	13/16	20	6	•
703	2	1	5	4	•
723	2½ or 3	1 7/16	5	8	•
763	3½ or 4	1 13/16	5	20	•
803	5	2¼	1	30	•
823	6	2¼	1	30	•

•See Price List

RECTANGULAR UNILET COVERS
FOR THREADED AND NO-THREAD UNILET BODIES

Porcelain, composition and metal rectangular covers of the same size may be assorted to make a standard package, regardless of style of cover.

4-WIRE COMPOSITION COVERS



For Unilet bodies with rectangular openings. Furnished with fastening screws.

Cat. No.	Size Cover, In.	Diam. Hole, In.	Std.Pkg. Assorted	Wt.Lb. Std.Pkg.	Price Each
614	⅜	5/16	200	7	•
604	½	5/16	200	20	•
624	¾	⅜	100	13	•
644	1	13/32	50	12½	•
664	1¼ or 1½	13/16	20	6	•
704	2	1	5	4	•
724	2½ or 3	1 7/16	5	8	•
764	3½ or 4	1 13/16	5	20	•
804	5	1⅞	1	30	•
824	6	1⅞	1	30	•

BLANK COMPOSITION COVERS



For Unilet bodies with rectangular openings. Furnished with fastening screws.

Cat. No.	Size Cover, In.	Std.Pkg. Assorted	Wt.Lb. Std.Pkg.	Price Each
630	⅜	200	7	•
600	½	200	20	•
620	¾	100	13	•
640	1	50	12½	•
660	1¼ or 1½	20	6	•
700	2	5	4	•
720	2½ or 3	5	8	•
760	3½ or 4	5	20	•
800	5	1	30	•
820	6	1	30	•

BLANK METAL COVERS
Flat



For Unilet bodies with rectangular openings. Furnished with fastening screws. Cadmium finish.

Blank Steel Cat. No.	Wt.Lbs. Std.Pkg.	Price Each	Size Inches	Std.Pkg. Ass't	Blank Malleable Cat. No.	Wt.Ibs. Std.Pkg.	Price Each
6500	7	•	⅜	100	----------	----	•
6000	20	•	½	200	6000-C	50	•
6020	15	•	¾	100	6020-C	40	•
6100	11	•	1	50	6100-C	30	•
6130	6	•	1¼–1½	20	6130-C	18	•
6200	3	•	2*	10	6200-C	10	•
6300	2½	•	2	5	6300-C	10	•
6320	5½	•	2½ or 3	5	6320-C	15	•
6360	13	•	3½ or 4	5	6360-C	20	•

*For use with rectangular Unilet for thin-wall conduit.

BLANK STEEL FLANGED COVERS



These covers are designed for use with rectangular threaded malleable Unilet bodies only. Cadmium finish.

Cat. No.	Size Cover, In.	Std.Pkg. Assorted	Wt.Lb. Std.Pkg.	Price Each
6000-F	½	200	32	•
6020-F	¾	100	16	•
6100-F	1	50	12	•
6130-F	1¼ or 1½	20	6	•
6300-F	2	5	7	•
6320-F	2½ or 3	5	5	•
6360-F	3½ or 4	5	10	•

•See Price List

RECTANGULAR UNILET COVERS

FOR THREADED AND NO-THREAD UNILET BODIES

Furnished with Fastening Screws and Fibre Retaining Washers

1-WIRE AND 2-WIRE PORCELAIN COVERS





1-Wire Standard

Cat. No.	Size Cover, In.	Diam. Hole, In.	Std.Pkg. Assorted	Wt.Lb Std.Pkg.	Price Each
6501†	⅜	------	100	10	•
6001	½	13/32	200	35	•
6021	¾	7/16	100	25	•
6101	1	½	50	20	•
6131	1¼ or 1½	½	20	14	•
6201	2*	1⅜	10	9	•
6301	2**	1 33/32	5	6	•
6321	2½ or 3	2⅝	5	13	•
6361	3½ or 4	3¼	5	30	•
6371	5	3¼	1	45	•
6391	6	3¼	1	45	•

1-Wire Special

6001-S	½	⅝	200	35	•
6021-S	¾	25/32	100	25	•
6101-S	1	1	50	20	•
6131-S	1¼ or 1½	1⅛	20	14	•

2-Wire

6502†	⅜	------	100	10	•
6002	½	⅜	200	35	•
6022	¾	⅜	100	25	•
6102	1	13/32	50	20	•
6132	1¼ or 1½	13/16	20	14	•
6202‡	2*	13/16	10	9	•
6302	2**	1	5	6	•
6322	2½ or 3	1 7/16	5	13	•
6362	3½ or 4	1 13/16	5	30	•
6372	5	2¼	1	45	•
6392	6	2¼	1	45	•

3-WIRE AND 4-WIRE PORCELAIN COVERS





3-Wire

Cat. No.	Size Cover, In.	Diam. Hole, In.	Std.Pkg. Assorted	Wt.Lb. Std.Pkg.	Price Each
6503†	⅜	------	100	10	•
6003	½	5/16	200	35	•
6023	¾	⅜	100	25	•
6103	1	13/32	50	20	•
6133	1¼ or 1½	13/16	20	14	•
6203‡	2*	1	5	9	•
6303	2**	1	5	6	•
6323	2½ or 3	1 7/16	5	13	•
6363	3½ or 4	1 13/16	5	30	•
6373	5	2¼	1	45	•
6393	6	2¼	1	45	•

4-Wire

6004	½	5/16	200	35	•
6024	¾	5/16	100	25	•
6104	1	13/32	50	20	•
6134	1¼ or 1½	13/16	20	14	•
6204§	2*	⅝	10	9	•
6304	2**	1	5	6	•
6324	2½ or 3	1 7/16	5	13	•
6364	3½ or 4	1 13/16	5	30	•
6374	5	1⅞	1	45	•
6394	6	1⅞	1	45	•

†Blank porcelain with 3 knockouts so as to make 1, 2 and 3-wire cover. ‡Has 2-wire holes and one knockout, when knockout is removed, can be used as a 3-wire cover. §Has 4-wire holes and one knockout, when knockout is removed, can be used as a 5-wire cover.

*Bodies for Thin-Wall Conduit. **Bodies for Heavy-Wall Conduit.

•See Price List

RECTANGULAR UNILET COVERS

FOR UNILET BODIES WITH RECTANGULAR OPENINGS

Furnished with Fastening Screws

SHEET STEEL WITH BRASS NIPPLE





Size Cover	Size Nipple	Std. Pkg. Ass't	Pkg. Wt.	Male Nipple Cat. No.	Male Nipple Price Each	Female Nipple Cat. No.	Female Nipple Price Each
½	⅛	200	40	6005	•	6006	•
¾	⅛	100	25	6027	•	6028	•
1	⅛	50	20	6129	•	6110	•
1¼, 1½	⅛	20	11	6139	•	6140	•
½	¼	200	40	6040	•	6041	•
¾	¼	100	25	6080	•	6081	•
1	¼	50	20	6090	•	6091	•
1¼, 1½	¼	20	11	6150	•	6151	•
½	⅜	200	40	6007	•	6008	•
¾	⅜	100	25	6029	•	6030	•
1	⅜	50	20	6111	•	6112	•
1¼, 1½	⅜	20	11	6141	•	6142	•
½	½	200	40	6042	•	6043	•
¾	½	100	25	6082	•	6083	•
1	½	50	20	6092	•	6093	•
1¼, 1½	½	20	11	6152	•	6153	•

PORCELAIN WITH BRASS NIPPLE



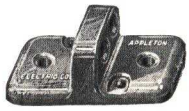


Size Cover	Size Nipple	Std. Pkg. Ass't	Pkg. Wt.	Male Nipple Cat. No.	Male Nipple Price Each	Female Nipple Cat. No.	Female Nipple Price Each
½	⅛	200	60	6009	•	6010	•
¾	⅛	100	40	6301	•	6032	•
1	⅛	50	30	6113	•	6114	•
1¼, 1½	⅛	20	25	6143	•	6144	•
½	¼	200	60	6044	•	6045	•
¾	¼	100	40	6084	•	6085	•
1	¼	50	30	6094	•	6095	•
1¼, 1½	¼	20	25	6154	•	6155	•
½	⅜	200	60	6011	•	6012	•
¾	⅜	100	40	6033	•	6034	•
1	⅜	50	30	6115	•	6116	•
1¼, 1½	⅜	20	25	6145	•	6146	•
½	½	200	60	6046	•	6047	•
¾	½	100	40	6086	•	6087	•
1	½	50	30	6096	•	6097	•
1¼, 1½	½	20	25	6156	•	6157	•

PORCELAIN COVERS



1-Wire and ⅛-Inch Male Nipple



2-Wire

For Drop Cord and Fixture Pull Switch

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
6015	½	200	60	•
6016	¾	100	40	•
6017	1	50	30	•

For Weatherproof Socket

Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
6013	½	200	35	•
6035	¾	100	25	•
6119	1	50	20	•

Cadmium finish is the standard finish for metal covers.

•See Price List

RECTANGULAR RECEPTACLES AND ROSETTES

FOR UNILET BODIES WITH RECTANGULAR OPENINGS

Furnished with Fastening Screws

LAMP RECEPTACLES — TWO-PIECE

660-Watt, 600-Volt



Porcelain top, composition base.

*With Shade Holder Groove					Without Shade Holder Groove				
Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
7660	½	100	47	•	7650	½	100	52	•
7661	¾	100	56	•	7651	¾	100	61	•
7662	1	50	28	•	7652	1	50	33	•

LAMP RECEPTACLES — ONE-PIECE

660-Watt, 600-Volt

Porcelain. With or without shade holder groove.



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
*With Shade Holder Groove				
7640	½	100	51	•
Without Shade Holder Groove				
7645	½	100	54	•

LAMP RECEPTACLES — ONE-PIECE

660-Watt, 600-Volt



Composition. With or without shade holder groove.

*With Shade Holder Groove					Without Shade Holder Groove				
Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
7620	½	100	60	•	7625	½	100	60	•
7621	¾	100	65	•	7626	¾	100	65	•
7622	1	50	40	•	7627	1	50	40	•

PORCELAIN CORD ROSETTES—TWO-WIRE

660-Watt, 250-Volt



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7655	½	100	52	•
7656	¾	100	66	•
7657	1	50	32	•

2-POLE ATTACHMENT PLUG RECEPTACLES

15-Amp., 125-Volt or 10-Amp., 250-Volt

Composition — Single — with Double T Slots



Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
7665	½	100	14	•
7666	¾	100	15	•
7667	1	50	10	•

If specified on order, lamp receptacle with lamp grip will be furnished at an advance of **$0.10** in the list price.

*Shade Holder Groove on all rectangular receptacles is 1½ inches diameter.

•See Price List

RECTANGULAR RECEPTACLES

FOR UNILET BODIES WITH RECTANGULAR OPENINGS

Furnished with Fastening Screws

2-POLE ATTACHMENT PLUG RECEPTACLES

15-Amp., 125-Volt or 10-Amp., 250 Volt

Composition — Duplex, with Double T Slots



Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
7685	½	100	10	•
7686	¾	100	10	•
7687	1	50	10	•

2-POLE POLARITY RECEPTACLES

10-Amp., 250-Volt or 15-Amp., 125-Volt
20-Amp., 250-Volt

Composition. 10 and 15-amp. receptacles take Hubbell No. 5567 polarized plug.



10A., 250V. or 15A., 125V.					20-Amp., 250-Volt				
Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each	Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
7691	¾	100	52	•	7696	¾	100	53	•
7692	1	50	35	•	7697	1	50	40	•

2-WIRE, 3-POLE ATTACHMENT PLUG RECEPTACLES

15-Amp., 125-Volt or 10-Amp., 250-Volt

Porcelain. Extra pole grounded‡.



Cat. No.	Size In.	Std. Pkg.	Pkg. Wt.	Price Each
7675	½	100	48	•
7676	¾	100	53	•
7677	1	50	34	•

‡These receptacles are designed to take Hubbell No. 6149 cap. The neutral contact-blade of the 3-wire cap is made slightly longer than the others, and makes contact first when the plug is inserted and holds contact until after the others are disconnected. The polarity arrangement insures proper electrical connection at all times.

GASKETS

FOR USE WITH THREADED AND NO-THREAD RECTANGULAR UNILETS

SOLID GASKETS

For use between Unilets and Metal Covers.



Cat. No	Size In.	Std. Pkg.	Price Each	Cat. No.	Size In.	Std. Pkg.	Price Each
2559	⅜	200	•	2563	1¼–1½	25	•
2560	½	200	•	2565	2	25	•
2561	¾	100	•	2566	2½–3	25	•
2562	1	50	•	2568	3½–4	25	•



OPEN GASKETS

For use between Unilets and Porcelain Covers.

Cat. No.	Size In.	Std. Pkg.	Price Each	Cat. No.	Size In.	Std. Pkg.	Price Each
2580	½	200	•	2585	2	25	•
2581	¾	100	•	2586	2½–3	25	•
2582	1	50	•	2588	3½–4	25	•
2583	1¼–1½	25	•	--------	--------	----	----

OPEN GASKETS

For use between Unilets and Receptacles.



Cat. No.	Size In.	Std. Pkg.	Price Each	Cat. No.	Size In.	Std. Pkg.	Price Each
2572	½	200	•	2574	1	50	•
2573	¾	100	•	--------	--	----	----

•See Price List

THREADED UNILET BODIES

FS SERIES — SHALLOW

For Use with Rigid Conduit (Heavy-Wall)

Take covers and shallow flush rectangular wiring devices, or plug receptacle housings. Furnished without screws for wiring devices.

Overall dimensions, exclusive of hubs: length, 4 9/16 inches; width, 2 13/16 inches; depth, 2 inches.

TYPE FS



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7901	½	25	44	•
7921	¾	25	47	•
7941	1	15	26	•

TYPE FSA

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7906	½	25	45	•
7926	¾	25	47	•
7946	1	15	26	•



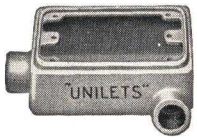
TYPE FSC



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7902	½	25	47	•
7922	¾	25	51	•
7942	1	15	29	•

TYPE FSL

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7905-L	½	25	46	•
7925-L	¾	25	51	•
7945-L	1	15	29	•



TYPE FSR



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7905-R	½	25	46	•
7925-R	¾	25	51	•
7945-R	1	15	29	•

TYPE FSLA

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7907	½	25	47	•
7927	¾	25	51	•
7947	1	15	29	•



TYPE FSS



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7910	½	25	47	•
7930	¾	25	51	•

1-Inch Not Made.

TYPE FSAA

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7920	½	25	47	•
7940	¾	25	51	•
7950	1	15	29	•



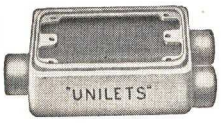
TYPE FSCA



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7908	½	25	48	•
7928	¾	25	50	•
7948	1	15	33	•

TYPE FSCC

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7911	½	25	46	•
7931†	¾	25	49	•
7951†	1	15	32	•
7971‡	¾	25	53	•



†Hubs at right are ½-inch. ‡All hubs, ¾-inch.

Cadmium Finish is the standard finish.

•See Price List

THREADED UNILET BODIES

FS SERIES — SHALLOW

For Use with Rigid Conduit (Heavy-Wall)

Take covers and shallow flush rectangular wiring devices, or plug receptacle housings. Furnished without screws for wiring devices.

Overall dimensions of body, exclusive of hubs: Length, 4 9/16 inches; width 2 13/16 inches; depth, 2 inches.

TYPE FSCT



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7909	½	25	49	•
7929	¾	25	50	•
7949	1	15	33	•

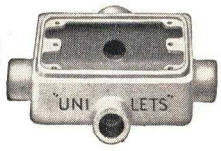
TYPE FST



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7903	½	25	48	•
7923	¾	25	50	•
7943	1	15	33	•

TYPE FSX

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7904	½	25	49	•
7924	¾	25	52	•
7944	1	15	35	•



TYPE FSCD



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7913	½	25	48	•
7933	¾	25	50	•

FD SERIES — DEEP

For Use with Rigid Conduit (Heavy-Wall)

Overall dimensions of body, exclusive of hubs: Length, 4 9/16 inches; width, 2 13/16 inches; depth, 2 11/16 inches.

TYPE FD



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17901	½	25	54	•
17921	¾	25	57	•
17941	1	15	37	•

TYPE FDA

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17906	½	25	54	•
17926	¾	25	57	•
17946	1	15	37	•



TYPE FDC



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17902	½	25	56	•
17922	¾	25	60	•
17942	1	15	41	•

TYPE FDL

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17905L	½	25	56	•
17925L	¾	25	60	•
17945L	1	15	41	•



TYPE FDR



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17905R	½	25	56	•
17925R	¾	25	60	•
17945R	1	15	41	•

Cadmium Finish is the standard finish.

•See Price List

THREADED UNILET BODIES

FD SERIES — DEEP

For Use with Rigid Conduit (Heavy-Wall)

Take covers and deep or shallow flush rectangular wiring devices, or plug receptacle housings. Furnished without screws for wiring devices.

Overall dimensions, exclusive of hubs: Length, 4 9/16 inches; width, 2 13/16 inches; depth, 2 11/16 inches.



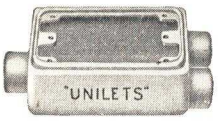
TYPE FDLA

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17907	½	25	56	•
17927	¾	25	60	•
17947	1	15	41	•

TYPE FDD

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17910	½	25	56	•
17930	¾	25	60	•





TYPE FDCC

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17911	½	25	58	•
17931†	¾	25	63	•
17951†	1	15	44	•
17991‡	¾	25	67	•

TYPE FDCA

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17908	½	25	58	•
17928	¾	25	63	•
17948	1	15	44	•





TYPE FDCT

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17909	½	25	58	•
17929	¾	25	63	•
17949	1	15	44	•

TYPE FDT

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17903	½	25	58	•
17923	¾	25	63	•
17943	1	15	44	•





TYPE FDX

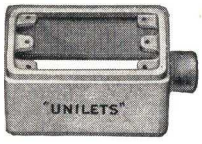
Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
17904	½	25	61	•
17924	¾	25	66	•
17944	1	15	47	•

FS SERIES — DOUBLE OPENING

Overall dimensions of body, exclusive of hubs: Length, 4 9/16 inches; width, 2 13/16 inches; depth, 3⅜ inches.

TYPE FS

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7918	½	25	60	•
7938	¾	25	63	•





TYPE FSC

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
7919	½	25	62	•
7939	¾	25	65	•

†The hubs at the right in the illustration are ½-inch.

‡All hubs are ¾-inch.

Cadmium Finish is the standard finish.

•See Price List

NO-THREAD UNILET BODIES

FS SERIES—SHALLOW

For Rigid Conduit and Thin-Wall Conduit

Overall dimensions of body, exclusive of hubs: Length, 4 9/16"; width, 2 13/16"; depth, 2".

TYPE FS

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
79N01	½	25	45	•
79N21	¾	25	47	•
79N41	1	15	29	•
For Thin-Wall Conduit				
79T01	½	25	45	•
79T21	¾	25	45	•
79T41	1	15	29	•



TYPE FSA

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
79N06	½	25	46	•
79N26	¾	25	48	•
79N46	1	15	32	•
For Thin-Wall Conduit				
79T06	½	25	46	•
79T26	¾	25	48	•
79T46	1	15	32	•



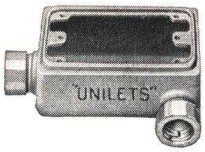
TYPE FSC

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
79N02	½	25	49	•
79N22	¾	25	52	•
79N42	1	15	34	•
For Thin-Wall Conduit				
79T02	½	25	49	•
79T22	¾	25	52	•
79T42	1	15	34	•



TYPE FSL

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
79N05L	½	25	49	•
79N25L	¾	25	55	•
79N45L	1	15	34	•
For Thin-Wall Conduit				
79T05L	½	25	49	•
79T25L	¾	25	55	•
79T45L	1	15	34	•



TYPE FSR

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
79N05R	½	25	49	•
79N25R	¾	25	55	•
79N45R	1	15	34	•
For Thin-Wall Conduit				
79T05R	½	25	49	•
79T25R	¾	25	55	•
79T45R	1	15	34	•



TYPE FSLA

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
79N07	½	25	49	•
79N27	¾	25	55	•
79N47	1	15	34	•
For Thin-Wall Conduit				
79T07	½	25	49	•
79T27	¾	25	55	•
79T47	1	15	34	•



TYPE FSS

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
79N10	½	25	46	•
79N30	¾	25	48	•
For Thin-Wall Conduit				
79T10	½	25	46	•
79T30	¾	25	48	•



Cadmium finish.

•See Price List

NO-THREAD UNILET BODIES

FS SERIES — SHALLOW

For Rigid Conduit and Thin-Wall Conduit

TYPE FSAA



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
For Rigid Conduit				
79N20	½	25	46	•
79N40	¾	25	50	•
79N50	1	15	42	•
For Thin-Wall Conduit				
79T20	½	25	46	•
79T40	¾	25	50	•
79T50	1	15	42	•

TYPE FSCA



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
For Rigid Conduit				
79N08	½	25	48	•
79N28	¾	25	54	•
79N48	1	15	44	•
For Thin-Wall Conduit				
79T08	½	25	48	•
79T28	¾	25	54	•
79T48	1	15	42	•

TYPE FSCC



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
For Rigid Conduit				
79N11	½	25	48	•
79N31	¾-½*	25	54	•
79N51	1-½*	15	42	•
For Thin-Wall Conduit				
79T11	½	25	48	•
79T31	¾-½*	25	54	•
79T51	1-½*	15	42	•

*The hubs at the right are ½-inch.

TYPE FSCT



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
For Rigid Conduit				
79N09	½	25	48	•
79N29	¾	25	54	•
79N49	1	15	44	•
For Thin-Wall Conduit				
79T09	½	25	48	•
79T29	¾	25	54	•
79T49	1	15	44	•

TYPE FST



Cat. No.	Size In	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
For Rigid Conduit				
79N03	½	25	48	•
79N23	¾	25	54	•
79N43	1	15	44	•
For Thin-Wall Conduit				
79T03	½	25	48	•
79T23	¾	25	54	•
79T43	1	15	44	•

TYPE FSX



Cat. No	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
For Rigid Conduit				
79N04	½	25	50	•
79N24	¾	25	56	•
79N44	1	15	46	•
For Thin-Wall Conduit				
79T04	½	25	50	•
79T24	¾	25	56	•
79T44	1	15	46	•

TYPE FSCD



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
For Rigid Conduit				
79N13	½	25	50	•
79N33	¾	25	56	•
For Thin-Wall Conduit				
79T13	½	25	50	•
79T33	¾	25	56	•

•See Price List

NO-THREAD UNILET BODIES

FS SERIES — SHALLOW

For Rigid Conduit and Thin-Wall Conduit

TYPE FS — DOUBLE OPENING

Overall dimensions of body, exclusive of hubs: Length, 4 $^{9}/_{16}$ inches; width, 2 $^{13}/_{16}$ inches; depth, 3⅜ inches.



Cat No.	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
For Rigid Conduit				
79N18	½	25	65	•
79N38	¾	25	66	•
For Thin-Wall Conduit				
79T18	½	25	65	•
79T38	¾	25	66	•

TYPE FSC — DOUBLE OPENING



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
For Rigid Conduit				
78N19	½	25	68	•
79N39	¾	25	71	•
For Thin-Wall Conduit				
79T19	½	25	68	•
79T39	¾	25	71	•

UNILET SINGLE-GANG COVERS

FOR FS AND FD SERIES OF THREADED AND NO-THREAD UNILET BODIES

Furnished with Fastening Screws

STEEL COVERS



For double push button switches, double push button momentary contact, and double push lock switches.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7960	50	12	•



For square handle tumbler and toggle flush switches.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7963	50	12	•



For Arrow, Bryant, Connecticut and General Electric tumbler and toggle flush switches, with guard.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7963-A	50	13	•



For one P&S-Despard, Bryant "IL" and Hubbell Interchangeable wiring device. Complete with single-opening strap.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7965	50	13	•



For 2 or 3 P&S-Despard, Bryant "IL" and Hubbell Interchangeable wiring devices (complete with 3-opening strap).

Cat No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7965-A	50	13	•



For Arrow No. 556 Combination receptacle and tumbler switch.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7967	50	12	•

Cadmium finish.

•See Price List

UNILET SINGLE-GANG COVERS

FOR FS AND FD SERIES OF THREADED AND NO-THREAD UNILET BODIES

Furnished with Fastening Screws

STEEL COVERS—Cont'd.



For round flush plug receptacles.

Cat. No.	Std. Pkg.	Wt. Lb. Std. Pkg.	Price Each
7969	50	12	•

For round flush plug receptacles.



Cat. No.	Std. Pkg.	Wt. Lb. Std. Pkg.	Price Each
7970	50	15	•



For Dugle flush tumbler switches.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7973	50	10	•

For Trigle flush tumbler switches.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7974	50	12	•



For standard 2 or 3-wire duplex receptacles.

Cat. No.	Std. Pkg.	Wt. Lb. Std. Pkg.	Price Each
7976	50	11	•

For conduit box receptacles, 1⅜ inch hole and screw holes 1 13/16 inches center to center.



Cat. No.	Std. Pkg.	Wt. Lb. Std. Pkg.	Price Each
7978	50	12	•



For conduit box receptacles, 1⅝-inch hole.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7980	50	12	•

For G.E. receptacle GE-996, Hubbell 7410.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7983	50	12	•



Blank metal.

Cat. No.	Std. Pkg.	Wt. Lb. Std. Pkg.	Price Each
7986	50	12	•

For pilot lamp flush receptacles (with ruby jewel†).



Cat. No.	Std. Pkg.	Wt. Lb. Std. Pkg.	Price Each
7987	50	14	•

CAST COVERS



For round flush receptacles (with spring door)—with gasket.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7988	50	44	•

For round flush receptacles.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7989	50	26	•



For square handle toggle switches.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7990	50	28	•

For square handle toggle switches (with protecting guard.)



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7990-A	50	31	•

†Covers with Olive Green, Emerald, Canary, Amethyst, Amber, Topaz, Opal, Frosted, Clear or Blue Jewels can be furnished at **$1.00** list each if specified on orders.

Cadmium finish is the standard finish.

•See Price List

UNILET SINGLE-GANG COVERS

FOR FS AND FD SERIES OF THREADED AND NO-THREAD UNILET BODIES

Furnished with Fastening Screws

CAST COVERS

With Receptacle for Standard Attachment Plug Cap

15-Amp., 125-Volt, or 10-Amp., 250-Volt



With Spring Door — With Gasket

Cat. No.	Description	Std. Pkg.	Pkg. Wt.	Price Each
7993	2-Wire, 2-Pole	25	30	•
7993A	2-Wire, 3-Pole*	25	31	•
7993B	3-Wire, 3-Pole	25	32	•

Without Door

Cat. No.	Description	Std. Pkg.	Pkg. Wt.	Price Each
7994	2-Wire, 2-Pole	25	19	•
7994A	2-Wire, 3-Pole*	25	20	•
7994B	3-Wire, 3-Pole	25	21	•



With Brass Cap — With Gasket



Cat. No.	Description	Std. Pkg.	Pkg. Wt.	Price Each
7992	2-Wire, 2-Pole	25	42	•
7992A	2-Wire, 3-Pole*	25	43	•
7992B	3-Wire, 3-Pole	25	44	•

With Ruby Jewel† — With Gasket

For pilot lamp flush receptacles.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
7991	50	28	•

*Third pole grounded.

†Covers with Olive Green, Emerald, Canary, Amethyst, Amber, Topaz, Opal, Frosted, Clear or Blue Jewels can be furnished at **$1.00** list each if specified on orders.

CAST VAPORTIGHT COVERS

With Gaskets

For single-gang FS and FD series of threaded malleable Unilet Bodies. Take toggle flush, double push button, momentary contact switches, etc.



For double push button switches.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
8140	25	16	•

For momentary contact switches.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
8141†	25	16	•



For key operation with standard double push button switches. With key.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
8142	25	15	•

For square handle tumbler and toggle flush switches.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
8144	25	16	•



For square handle tumbler and toggle flush switches, (with guards).

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
8144-B	25	16	•

†For use on "FD" Series Single-gang Unilets only.

Cadmium finish is the standard finish.

•See Price List

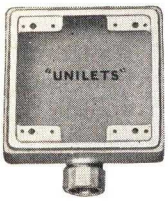
FS NO-THREAD UNILET BODIES

TWO-GANG—SHALLOW

For Use with Rigid Conduit (Heavy-Wall) and Threadless Thin-Wall Conduit

Take covers and shallow flush rectangular wiring devices. Furnished without screws for wiring devices.

Overall dimensions of body exclusive of hubs: width 4⅝ inches; height 4$\frac{9}{16}$ inches; depth 2 inches.



TYPE FS

Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
66N25	½	25	59	•
66N30	¾	15	37	•
66N35	1	5	15	•
For Thin-Wall Conduit				
66T25	½	25	59	•
66T30	¾	15	37	•
66T35	1	5	15	•

TYPE FSA



Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
66N28	½	25	63	•
66N34	¾	15	40	•
66N39	1	5	15	•
For Thin-Wall Conduit				
66T28	½	25	63	•
66T34	¾	15	40	•
66T39	1	5	15	•

TYPE FSC



Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
66N26	½	25	65	•
66N31	¾	15	41	•
66N36	1	5	15	•
For Thin-Wall Conduit				
66T26	½	25	65	•
66T31	¾	15	41	•
66T36	1	5	15	•

TYPE FSS



Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
66N29	½	25	64	•
66N33	¾	15	39	•
66N38	1	5	15	•
For Thin-Wall Conduit				
66T29	½	25	64	•
66T33	¾	15	39	•
66T38	1	5	15	•

TYPE FSD



Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
For Rigid Conduit				
66N27	½	25	67	•
66N32	¾-½†	15	35	•
66N37	1 -½†	5	16	•
For Thin-Wall Conduit				
66T27	½	25	67	•
66T32	¾-½†	15	35	•
66T37	1 -½†	5	16	•

†The hubs at the top are ½-inch.
Cadmium finish is the standard finish.
•See Price List

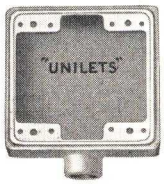
FS-FD THREADED UNILET BODIES

TWO-GANG—SHALLOW AND DEEP

For Use with Rigid Conduit (Heavy-Wall)

Take covers and deep or shallow flush rectangular wiring devices. Furnished without screws for wiring devices.

Overall dimensions of body, exclusive of hubs: width, 4⅝ inches; height, 4$\frac{9}{16}$ inches; depth, shallow type, 2 inches; depth, deep type, 2$\frac{11}{16}$ inches.



Type FS—Shallow

Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
6625	½	25	57	•
6630	¾	15	36	•
6635	1	5	13	•

Type FD—Deep

16625	½	25	67	•
16630	¾	15	44	•
16635	1	5	16	•

Type FSA—Shallow

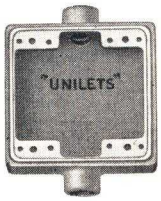


Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
6628	½	25	63	•
6634	¾	15	33	•
6639	1	5	13	•

Type FDA—Deep

16628	½	25	67	•
16634	¾	15	44	•
16639	1	5	16	•

Type FSC—Shallow

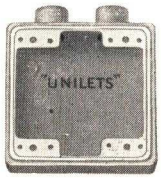


Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
6626	½	25	59	•
6631	¾	15	37	•
6636	1	5	14	•

Type FDC—Deep

16626	½	25	69	•
16631	¾	15	45	•
16636	1	5	17	•

Type FSS—Shallow



Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
6629	½	25	61	•
6633	¾	15	36	•
6638	1	5	13	•

Type FDS—Deep

16629	½	25	69	•
16633	¾	15	45	•
16638	1	5	17	•

Type FSD—Shallow



Cat. No.	Size In.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
6627	½	25	62	•
6632	¾-½†	15	34	•
6637	1-½†	5	15	•

Type FDD—Deep

16627	½	25	70	•
16632	¾-½†	15	45	•
16637	1-½†	5	17	•

†The hubs at the top in the illustration are ½-inch.
Cadmium finish is the standard finish.
•See Price List

UNILET TWO-GANG COVERS

FOR FS AND FD SERIES OF THREADED AND NO-THREAD UNILET BODIES

Furnished with Fastening Screws

STEEL COVERS



For square handle tumbler and toggle flush switches.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14090	25	10	•

For square handle toggle flush switches (with protecting guard).



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14090-B	25	11	•



For Dugle flush tumbler switch.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14062	25	10	•

For Trigle Flush Tumbler Switch.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14063	25	10	•



For two P&S-Despard, Bryant "IL" and Hubbell Interchangeable wiring devices (with single-opening strap).

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14065	25	11	•

For four or six P&S-Despard, Bryant "IL" and Hubbell Interchangeable wiring devices (with 3-opening strap).



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14066	25	11	•



For round flush receptacles. (Without lift cover.)

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14053	25	10	•

For Hubbell 2-wire No. 7210 or 3-wire No. 7310 Twist-Lock flush receptacles.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14053-A	25	10	•



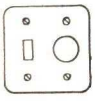
For round flush receptacles. (With lift cover.)

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14054	25	12	•

For standard duplex flush receptacles.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14058	25	8	•



For toggle flush switches and round flush receptacles. (Without lift cover.)

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14075	25	10	•

For toggle flush switches and standard duplex flush receptacles.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14076	25	10	•



For round flush receptacles and standard duplex flush receptacles.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14083	25	10	•

Cadmium finish is the standard finish.

•See Price List

UNILET TWO-GANG COVERS

FOR FS AND FD SERIES OF THREADED AND NO-THREAD UNILET BODIES

Furnished with Fastening Screws

STEEL COVERS



For round flush receptacles and pilot lamp flush receptacles, (ruby jewel.)‡

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14095	25	12	•

For Hubbell 2-wire 30 amp. polarized flush receptacle No. 7070.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14097	25	10	•



For Hubbell 3-wire, 30 amp. No. 7112 and 4-wire, 60 amp. No. 7301 polarized flush receptacles.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14098†	25	10	•

Blank metal.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14089	25	11	•

MALLEABLE COVER — WITHOUT GASKET



For square handle toggle switches. (With protecting guard).

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
8167	15	13	•

MALLEABLE VAPORTIGHT COVERS

With Gaskets

For double push button switches.



Cat. No.	Std. Pkg.	Wt. Lbs. Std.Pkg.	Price Each
8160	15	22	•

Designed for momentary contact switches.



8161† 15 21 •

For key operation with standard double push button switches (with key).



8162 15 20 •

With stuffing box for Arrow push and pull switches with operating handles, 6010 to 6013 and 6043 to 6052.



8163 15 14 •

For square handle tumbler and toggle flush switches.



8164 15 26 •

For square handle tumbler and toggle flush switches (with guards).



8164-B 15 33½ •

For Switches and Starters as listed below(*).



8164-A† 15 31 •

Blank, two-gang cover.



8165 15 13 •

*For Switches and Starters as follows:

Arrow H&H No. 100006 2-pole, 30-amp., 250-volt. Arrow H&H No. 80162 2-pole, 5-amp., 600 volt.

Arrow Type "C" Switches, 20-amp., 250-volt, Nos. 6301, 6302, 6303, 6304, 6306; Arrow Type "C" Switches, 30-amp., 250-volt, Nos. 6464, 6465, 6466, 6467, 6469.

Bryant Type "T" 20-amp., 250-volt, Nos. 5421, 5422, 5423, 5424; Bryant Type "T" 30-amp., 250-volt, Nos. 5431, 5432, 5433, 5434, 5436.

Trumbull Manual Starters, Nos. 2227-S, 2228-S, 2328-S, 2361-S; Trumbull "TT" Manual Starters, Nos. 1100-S to 1112-A and 1200-S to 1212-S.

†For use with two-gang "FD" series Unilets only.

‡Covers with olive green, emerald, canary, amethyst, amber, topaz, opal, frosted, clear or blue jewels, can be furnished if specified on orders.

Cadmium finish is the standard finish.

•See Price List

APPLETON EXTENSION CABLE CONNECTORS

TYPE BRC EXTENSION CABLE CONNECTORS

For Flexible Cable



Electric power for portable electrical apparatus is generally supplied from a plug receptacle source of current. In the case of small devices, the usual method is to attach a portable cord or cable permanently to the portable device and at the other end, the cable may terminate in a suitable plug to be inserted in a receptacle.

Where portable apparatus taking large current is used, the portable cable becomes large and depending upon the length of cable used, this usually becomes very difficult and almost impossible to handle. This difficulty may be overcome by making up the cable in several suitable lengths, using the Type "BRC" Connector at one end and a plug at the other end.

As each cable requires both a plug and a receptacle, the connectors are listed complete as shown in illustration.

Furnished with gland nuts, rubber bushings and cord grips with cast aluminum handle.

20 Amp., 125 V. D.C.—30 Amp., 230 V. A.C.

Cat. No.	Poles	Diam. Cable	Std. Pkg.	Pkg. Wt.	Price Each
9751	2	.500 to .625	10	33	•
9752	2	.625 to .750	10	33	•
9753	2	.750 to .875	10	33	•
9755	3	.500 to .625	10	35	•
9756	3	.625 to .750	10	35	•
9757	3	.750 to .875	10	35	•
9758	3	.875 to 1.000	10	35	•
9761	4	.500 to .625	10	37	•
9762	4	.625 to .750	10	37	•
9763	4	.750 to .875	10	37	•
9764	4	.875 to 1.000	10	37	•

TYPE BR PLUG RECEPTACLES (FEMALE CONTACTS)



For Types BRD, BRG, BRY and SQE Plug Receptacle Housings

Cat. No.	Amperes 125 V. D.C.	Amperes 230 V. A.C.	Poles	Std. Pkg.	Pkg. Wt.	Price Each
9742	20	30	2	25	5	•
9743	20	30	3	25	6	•
9744	20	30	4	25	7	•

TYPE BPR PLUG RECEPTACLES (MALE CONTACTS)

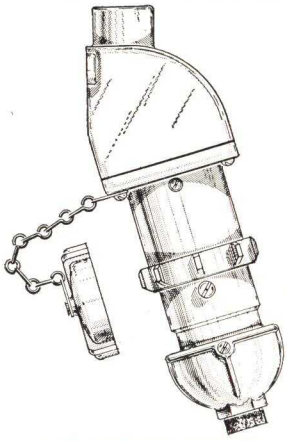


For Type BP Plugs

Cat. No.	Amperes 125 V. D.C.	Amperes 230 V. A.C.	Poles	Std. Pkg.	Pkg. Wt.	Price Each
9772	20	30	2	25	7	•
9773	20	30	3	25	8	•
9774	20	30	4	25	9	•

•See Price List

APPLETON CIRCUIT BREAKING PLUGS AND RECEPTACLE EQUIPMENT



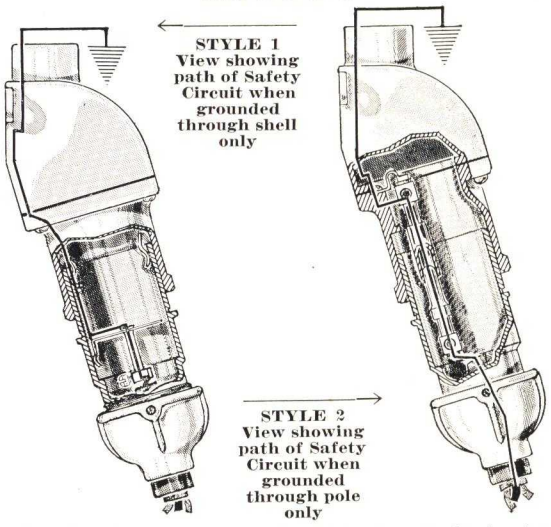
"AEE" SERIES UNILET With Threaded Housing and "AEP" Plug

Appleton "AE" Series of Plugs, Receptacles and Receptacle fittings, are to be used for general purpose in and around industrial plants.

These Plugs and Receptacles are of simple but sturdy construction so as to withstand long heavy duty service. Fast and simple wiring is made possible with the introduction of a complete Terminal Unit. To remove Terminal Units for wiring loosen the screws on the sides of Plug and Receptacle Housings. Terminals are equipped with Solderless connectors. Receptacle Housings are made in four styles, Lift Cover Housing, Plain Housing, Threaded Housing and Cap Housing. The Lift Cover Housing has a Lift Cover with Rubber Gasket mounted on a Self Aligning Plate to form a Dust proof Enclosure. Plugs are made in two styles, with and without Clamping Ring.

These Plugs and Receptacles can also be used for Reversed service, by installing Interior Terminal Units in opposite Housings. On Style 2, remove Ground Strap from Female Terminal Unit and install same on Male Terminal Unit.

GROUNDING



These plugs and receptacles are made in two styles.

Style 1 is for use in ordinary installations where the receptacle housing may serve as a safety circuit. Connect ground wire for portable machine to center ground connector in plug terminal block.

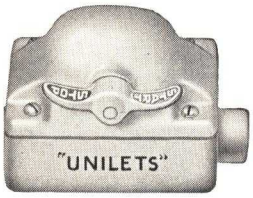
Style 2 is grounded through pole only — and is for use in places where excessive corrosion exists. Consequently, the safety circuit of Style 2 is positive by being grounded directly through the pole. Ground terminal is made longer so that contact between plug and receptacle is made first and broken last. The receptacle ground circuit is connected to receptacle housing by means of ground strap, from the safety circuit.

FS SERIES PUSH BUTTON STATION UNILETS

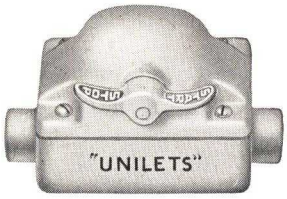
VAPORTIGHT AND WEATHERPROOF

Furnished with Arrow-Hart & Hegeman Interchangeable Bakelite Push Button Units, B-1, B-2, and B-3.

WITH ROCKER TYPE OPERATED HANDLES



Type "FS"

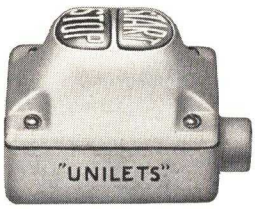


Type "FSC"

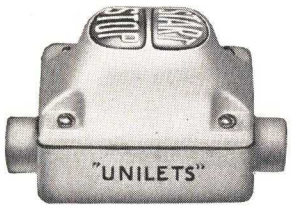
5 Amp., 600 Volts, AC

Normal Positions	Plate Marking	Size Hub	Type "FS" Cat. No.	Type "FS" Price Each	Type "FSC" Cat. No.	Type "FSC" Price Each
1 Button (Open)	Start	½	47200	•	47230	•
		¾	47201	•	47231	•
1 Button (Closed)	Stop	½	47202	•	47232	•
		¾	47203	•	47233	•
2 Buttons (1 Open, 1 Closed)	Start	½	47204	•	47234	•
	Stop	¾	47205	•	47235	•
2 Buttons, (Both Open)	Start	½	47206	•	47236	•
	Start	¾	47207	•	47237	•
2 Buttons (2 Closed)	Stop	½	47208	•	47238	•
	Stop	¾	47209	•	47239	•

WITH FRONT OPERATED BUTTONS



Type "FS"



Type "FSC"

5 Amp., 600 Volts, AC

Normal Positions	Plate Marking	Size Hub	Type "FS" Cat. No.	Type "FS" Price Each	Type "FSC" Cat. No.	Type "FSC" Price Each
1 Button (Open)	Start	½	47260	•	47290	•
		¾	47261	•	47291	•
1 Button (Closed)	Stop	½	47262	•	47292	•
		¾	47263	•	47293	•
2 Buttons (1 Open, 1 Closed)	Start	½	47264	•	47294	•
	Stop	¾	47265	•	47295	•
2 Buttons (Both Open)	Start	½	47266	•	47296	•
	Start	¾	47267	•	47297	•
2 Buttons (2 Closed)	Stop	½	47268	•	47298	•
	Stop	¾	47269	•	47299	•

Cadmium finish.

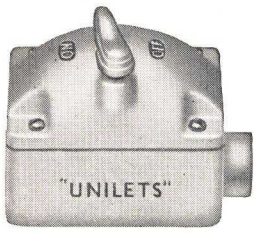
Other hub arrangements or hub sizes can be furnished by using any Unilet body of the regular FS series with flat tops. Prices on application.

Overall dimensions, exclusive of hubs: Length, 4 9/16 inches; width, 2 13/16 inches; depth, 4¼ inches.

•See Price List

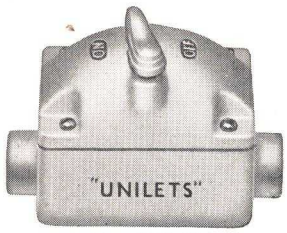
FD SERIES SECONDARY BREAKER UNILETS—VAPORTIGHT

FOR D.C. OR SINGLE PHASE A.C. MOTORS WITH FRONT OPERATED HANDLE



Type "FD"

Size Hub	WITH SECONDARY BREAKER Single-Pole Cat. No.	Single-Pole Price Each	Double-Pole Cat. No.	Double-Pole Price Each	*WITHOUT SECONDARY BREAKER Cat. No.	*WITHOUT SECONDARY BREAKER Price Each
Arrow-H&H Secondary Breaker						
½	47340†	•	47350†	•	47360	•
¾	47341†	•	47351†	•	47361	•
1	47342†	•	47352†	•	47362	•
Bryant Type H Secondary Breaker						
½	47343‡	•	47353‡	•	47363	•
¾	47344‡	•	47354‡	•	47364	•
1	47345‡	•	47355‡	•	47365	•
Westinghouse Type H Secondary Breaker						
½	47346‡	•	47356‡	•	47366	•
¾	47347‡	•	47357‡	•	47367	•
1	47348‡	•	47358‡	•	47368	•



Type "FDC"

Size Hub	WITH SECONDARY BREAKER Single-Pole Cat. No.	Single-Pole Price Each	Double-Pole Cat. No.	Double-Pole Price Each	*WITHOUT SECONDARY BREAKER Cat. No.	*WITHOUT SECONDARY BREAKER Price Each
Arrow-H&H Secondary Breaker						
½	47370†	•	47380†	•	47390	•
¾	47371†	•	47381†	•	47391	•
1	47372†	•	47382†	•	47392	•
Bryant Type H Secondary Breaker						
½	47373‡	•	47383‡	•	47393	•
¾	47374‡	•	47384‡	•	47394	•
1	47375‡	•	47385‡	•	47395	•
Westinghouse Type H Secondary Breaker						
½	47376‡	•	47386‡	•	47396	•
¾	47377‡	•	47387‡	•	47397	•
1	47378‡	•	47388‡	•	47398	•

Cadmium finish.

*Take single and 2-pole secondary breakers.

†Price includes breaker with integral heater.

‡Price includes breaker with one interchangeable heater.

Add Appleton symbol number of heater or breaker as a suffix to the catalog number of complete Unilet.

Examples: The catalog number of 47341, when furnished complete with 2.4 ampere breaker, would be 47341-37. The catalog number of 47344, when furnished with 1.4 ampere heater, would be 47344-1.

Other hub arrangements or hub sizes can be supplied. Prices on application.

Overall dimensions, exclusive of hubs: Length, 4 9/16 inches; width, 2 13/16 inches; depth, 4¼ inches.

•See Price List

APPLETON "EX" SERIES FLEXIBLE COUPLINGS

EXPLOSION-PROOF, DUST-TIGHT AND WEATHERPROOF

Class I, Groups C and D, and Classes II, III, and IV





Flexible Lgth.	Size In.	Overall Length Inches	Type EXJ With Female Nipples at Both Ends Cat. No.	Price Each	Type EXH With Male Nipples at Both Ends Cat. No.	Price Each
4″	½	7	EXJ 14	•	EXH 14	•
	¾	7	EXJ 24	•	EXH 24	•
6″	½	9	EXJ 16	•	EXH 16	•
	¾	9	EXJ 26	•	EXH 26	•
	1	9¾	EXJ 36	•	EXH 36	•
8″	½	11	EXJ 18	•	EXH 18	•
	¾	11	EXJ 28	•	EXH 28	•
	1	11¾	EXJ 38	•	EXH 38	•
10″	½	13	EXJ110	•	EXH110	•
	¾	13	EXJ210	•	EXH210	•
	1	13¾	EXJ310	•	EXH310	•
12″	½	15	EXJ112	•	EXH112	•
	¾	15	EXJ212	•	EXH212	•
	1	15¾	EXJ312	•	EXH312	•
	1¼	16½	EXJ412	•	EXH412	•
	1½	16⅞	EXJ512	•	EXH512	•
	2	17¼	EXJ612	•	EXH612	•
15″	½	18	EXJ115	•	EXH115	•
	¾	18	EXJ215	•	EXH215	•
	1	18¾	EXJ315	•	EXH315	•
	1¼	19½	EXJ415	•	EXH415	•
	1½	19⅞	EXJ515	•	EXH515	•
	2	20¼	EXJ615	•	EXH615	•
18″	½	21	EXJ118	•	EXH118	•
	¾	21	EXJ218	•	EXH218	•
	1	21¾	EXJ318	•	EXH318	•
	1¼	22½	EXJ418	•	EXH418	•
	1½	22⅞	EXJ518	•	EXH518	•
	2	23¼	EXJ618	•	EXH618	•
21″	½	24	EXJ121	•	EXH121	•
	¾	24	EXJ221	•	EXH221	•
	1	24¾	EXJ321	•	EXH321	•
	1¼	25½	EXJ421	•	EXH421	•
	1½	25⅞	EXJ521	•	EXH521	•
	2	26¼	EXJ621	•	EXH621	•
24″	½	27	EXJ124	•	EXH124	•
	¾	27	EXJ224	•	EXH224	•
	1	27¾	EXJ324	•	EXH324	•
	1¼	28½	EXJ424	•	EXH424	•
	1½	28⅞	EXJ524	•	EXH524	•
	2	29¼	EXJ624	•	EXH624	•
27″	½	30	EXJ127	•	EXH127	•
	¾	30	EXJ227	•	EXH227	•
	1	30¾	EXJ327	•	EXH327	•
	1¼	31½	EXJ427	•	EXH427	•
	1½	31⅞	EXJ527	•	EXH527	•
	2	32¼	EXJ627	•	EXH627	•
30″	½	33	EXJ130	•	EXH130	•
	¾	33	EXJ230	•	EXH230	•
	1	33¾	EXJ330	•	EXH330	•
	1¼	34½	EXJ430	•	EXH430	•
	1½	34⅞	EXJ530	•	EXH530	•
	2	35¼	EXJ630	•	EXH630	•

Any of the above couplings can be furnished with longer flexible lengths when required. Prices on application.

•See Price List

APPLETON "EX" SERIES FLEXIBLE COUPLINGS

EXPLOSION-PROOF, DUST-TIGHT AND WEATHERPROOF

Class I, Groups C and D, and Classes II, III, and IV



Type EXG

With Male Nipple at One End, and Female Nipple at Other End

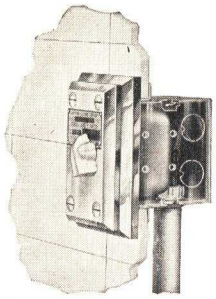
Flexible Length	Size In.	Overall Length Inches	Type EXG Cat. No.	Price Each
4″	½	7	EXG 14	•
	¾	7	EXG 24	•
6″	½	9	EXG 16	•
	¾	9	EXG 26	•
	1	9¾	EXG 36	•
8″	½	11	EXG 18	•
	¾	11	EXG 28	•
	1	11¾	EXG 38	•
10″	½	13	EXG110	•
	¾	13	EXG210	•
	1	13¾	EXG310	•
12″	½	15	EXG112	•
	¾	15	EXG212	•
	1	15¾	EXG312	•
	1¼	16½	EXG412	•
	1½	16⅞	EXG512	•
	2	17 3/16	EXG612	•
15″	½	18	EXG115	•
	¾	18	EXG215	•
	1	18¾	EXG315	•
	1¼	19½	EXG415	•
	1½	19⅞	EXG515	•
	2	20 3/16	EXG615	•
18″	½	21	EXG118	•
	¾	21	EXG218	•
	1	21¾	EXG318	•
	1¼	22½	EXG418	•
	1½	22⅞	EXG518	•
	2	23 3/16	EXG618	•
21″	½	24	EXG121	•
	¾	24	EXG221	•
	1	24¾	EXG321	•
	1¼	25½	EXG421	•
	1½	25⅞	EXG521	•
	2	26 3/16	EXG621	•
24″	½	27	EXG124	•
	¾	27	EXG224	•
	1	27¾	EXG324	•
	1¼	28½	EXG424	•
	1½	28⅞	EXG524	•
	2	29 3/16	EXG624	•
27″	½	30	EXG127	•
	¾	30	EXG227	•
	1	30¾	EXG327	•
	1¼	31½	EXG427	•
	1½	31⅞	EXG527	•
	2	32 3/16	EXG627	•
30″	½	33	EXG130	•
	¾	33	EXG230	•
	1	33¾	EXG330	•
	1¼	34½	EXG430	•
	1½	34⅞	EXG530	•
	2	35 3/16	EXG630	•

Any of the above couplings can be furnished with longer flexible lengths when required. Prices on application.

•See Price List

SH SERIES SEALED SAFETY SWITCH UNILETS

(Patent Pending)



Type "SHS" Single-gang Sealed Safety Switch as Installed in Existing Switch Box (Sectional View)

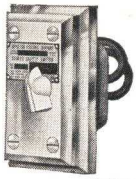
Designed for use in revamping old installations to make them much less hazardous.

Thousands of hazardous locations now exist in hospitals particularly where it is not practical or financially possible to completely rewire the institution — yet in changing over from ether anesthetics to more modern gaseous anesthetics explosive conditions now exist which were not prevalent when existing electrical installations were made.

These switches are of the most modern explosion-resisting design — conform to all existing Underwriters' standards—however, because they are made to be installed in outlet boxes of all existing circuits and because they are spliced to the circuit outside the explosion-proof switch chamber they will not, at this time, be labeled as approved by Underwriters' Laboratories.

In our opinion the operation of the switch within explosion-proof housings eliminate practically all hazard and if the party installing the device makes a soldered and thoroughly taped splice, no hazard exists.

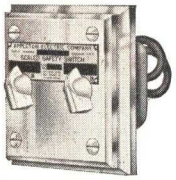
TYPE SHS SINGLE-GANG



Mounts on (†) 4-inch box having a single-gang switch cover — for example, Appleton No. 8468 cover; or single-gang switch box — for example, Appleton No. 333.

Cat. No.	Switch	Rating	Price Each
28200	Single-pole	10A. 125V., 5A. 250V.	•
28201	Double-pole	10 Amp. 250 Volt.....	•

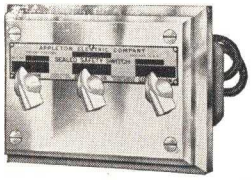
TYPE SHS TWO-GANG



Mounts on (†) 4-inch square outlet box having a two-gang switch box cover—for example, Appleton No. 8470 cover; or Appleton GSB-2 box with Appleton GSC-2 cover.

Cat. No.	Switch	Rating	Price Each
28205	Single-pole	10A. 125V., 5A. 250V.	•
28206	Double-pole	10 Amp. 250 Volt.....	•

TYPE SHS THREE-GANG



Mounts on (†) Appleton GSB-3 box having Appleton GSC-3 cover.

Cat. No.	Switch	Rating	Price Each
28210	Single-pole	10A. 125V., 5A. 250V.	•
28211	Double-pole	10 Amp. 250 Volt.....	•

Finish: Covers are chromium plated.

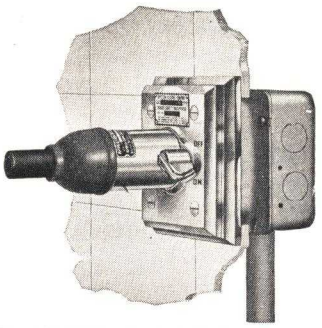
Any combination of single, double, 3-way, 4-way and momentary switches can be furnished upon request. Prices on application.

†Note: Depth from plaster or tile surface to bottom of box must be not less than 2¼ inches.

•See Price List

SH SERIES SEALED SAFETY SWITCH RECEPTACLE

(Patent Pending)



Type "SHR" Sealed Safety Switch Receptacle and plug installed on 4" Square Box and two-gang cover to show plate covering tile.

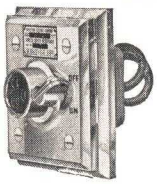
The SHR Sealed Safety Switch Receptacle like the SH Series is designed for use in revamping old installations.

This Sealed Safety Switch Receptacle conforms to all the present Underwriters' Standards — but since it is designed for installation on outlet boxes of existing circuits and because it is spliced to the circuit outside of the explosion-proof switch chamber, it will not, at this time be labeled as approved by the Underwriters' Laboratories.

The receptacle member is a sealed unit with an interlocking switch whereby the plug may be inserted or withdrawn only when the switch is in "off" position. Likewise, the switch handle cannot be moved to the "on" position until the plug is seated and in electrical contact with the receptacle.

This unit, in our opinion, when properly installed with carefully soldered and taped splices eliminates practically all hazard and provides an outlet of chrome polished finish, in pleasing design harmonizing in appearance with the usual appointments on an operating room.

TYPE SHR RECEPTACLE



Mounts on (†) 4-inch square outlet box having a single-gang switch cover — for example, Appleton No. 8468 cover; or single-gang switch box — for example, Appleton No. 333.

Cat. No.	A.C. Rating	Price Each
28275	2-wire, 3-pole 10 Amp. 125 Volt, ½ H.P. 115 volt.....	•

Finish: Covers are chromium plated.

†Note: Depth from plaster or tile surface to bottom of box must be not less than 2¼ inches.

TYPE CPL PLUGS

For Use with SHR Receptacle

2-wire, 3-pole, 10 amp. 125 volt, 5 amp. 250 volt, 3 amp. 460 volt, 2 amp. 600 volt, ½ H.P. 115–230–460 volt, A.C.

Cat. No.	Size Cable	Price Each
28285	No. 14.....	•
28286	No. 16.....	•
28287	No. 18.....	•



Finish: Plugs are polished aluminum.

•See Price List

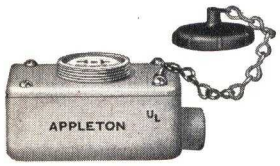
APPLETON SPECIAL "REA" CONDUIT FITTINGS

FOR RURAL ELECTRIFICATION WIRING

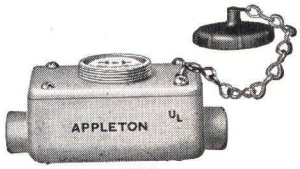
(Weathertight)

OUTDOOR RECEPTACLE FITTINGS

Complete with Receptacle, Cap and Chain†



Type "E"



Type "C"

Type E—One ½-Inch Hub

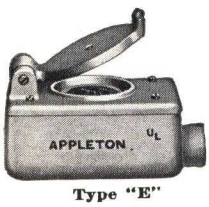
Cat. No.	Style	Amperes 125V.	Amperes 250V.	Wt. Ea. Lbs.	Wt. Ea. Oz.	Price Schedule
REA-4	2-Wire, 2-Pole	15	10	2	11	"CFS"
REA-5	2-Wire, 3-Pole	15	10	2	11	"CFS"
REA-6	3-Wire, 3-Pole	15	10	2	11	"CFS"

Type C—Two ½-Inch Hubs

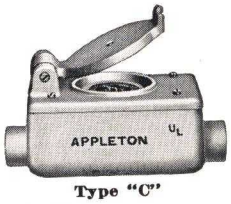
REA-7	2-Wire, 2-Pole	15	10	2¾	....	"CFS"
REA-8	2-Wire, 3-Pole	15	10	2¾	....	"CFS"
REA-9	3-Wire, 3-Pole	15	10	2¾	....	"CFS"

OUTDOOR RECEPTACLE FITTINGS

Complete with Receptacle and Lift Cover†



Type "E"



Type "C"

Type E—One ½-Inch Hub

Cat. No.	Style	Amperes 125V.	Amperes 250V.	Wt. Ea. Lbs.	Wt. Ea. Oz.	Price Schedule
REA-44	2-Wire, 2-Pole	15	10	2	15	"CFS"
REA-45	2-Wire, 3-Pole	15	10	2	15	"CFS"
REA-46	3-Wire, 3-Pole	15	10	2	15	"CFS"

Type C—Two ½-Inch Hubs

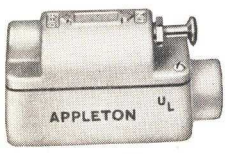
REA-47	2-Wire, 2-Pole	15	10	3	....	"CFS"
REA-48	2-Wire, 3-Pole	15	10	3	....	"CFS"
REA-49	3-Wire, 3-Pole	15	10	3	....	"CFS"

†Will take standard attachment plug caps—15 amp., 125 volt or 10 amp., 250 volt.

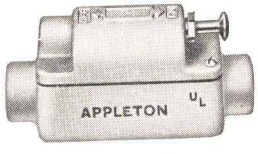
OUTDOOR SWITCH FITTINGS

Complete with Switches

All Switches except Double Pole are "T" Rated



Type "E"



Type "C"

Type E—One ½-Inch Hub

Cat. No.	Style	Amperes 125V.	Amperes 250V.	Wt. Ea. Lbs.	Wt. Ea. Oz.	Price Schedule
REA-10	Single Pole.....	10	5	1	2	"CFS"
REA-11	Double Pole....	....	10	1	2	"CFS"
REA-12	Three Way.....	10	5	1	2	"CFS"
REA-13	Four Way	10	5	1	2	"CFS"

Type C—Two ½-Inch Hubs

REA-14	Single Pole.....	10	5	1	3	"CFS"
REA-15	Double Pole....	....	10	1	3	"CFS"
REA-16	Three Way.....	10	5	1	3	"CFS"
REA-17	Four Way	10	5	1	3	"CFS"

All above packed one to a carton.

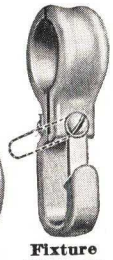
ACCESSORIES

CONDUIT CLAMPS AND FIXTURE HANGERS

For Use with Types "GWC", "GWCR", "GWH", "GWHR" and "ALH" Unilets having Guy Wire Fixture Hanger and Rod Support



Conduit Clamps



Fixture Hangers

Conduit Clamps

Cat. No. For Rigid Conduit	Cat. No. For EMT (Thin-Wall)	Size In.	Std. Pkg.	Price Each
17215	172T15	½	40	•
17216	172T16	¾	35	•
17217	172T17	1	30	•

Fixture Hangers

17225	172T25	½	40	•
17226	172T26	¾	35	•
17227	172T27	1	30	•

PENDENT FIXTURE HOOKS*

Size In.	Female Hub For Rigid Conduit (Heavy-Wall) Std. Pkg.	Female Hub Cat. No.	Female Hub Price Each	Male Hub Cat. No.	Male Hub Price Each
½	50	1480	•	1470	•
¾	25	1481	•	1471	•



Female Hub



Male Hub

PENDENT FIXTURE LOOPS*



Female Hub



Male Hub

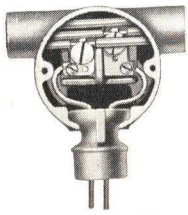
Size In.	Female Hub For Rigid Conduit (Heavy-Wall) Std. Pkg.	Female Hub Cat. No.	Female Hub Price Each	Male Hub Cat. No.	Male Hub Price Each
½	50	1485	•	1495	•
¾	25	1486	•	1496	•

*Pendent Fixtures Hooks and Loops have a hole in side for wire leading to plug and receptacle.

CONNECTION BLOCK—PORCELAIN

For Use with "AL" Series Flexible Fixture Hanger Unilets

Provides a convenient means of connecting lines and fixture stem wires, without splices. The entire Fixture and stem can be assembled on the bench, after which same can be hung by sliding the supporting nipple into the groove of the Unilet body and connecting the fixture wires to the two binding terminals of the connection block. This also permits workmen to remove fixtures at any time for changes and replacements.



Type "ALC" Fixture Hanger Unilet with Cover removed showing wiring to Connection Block

The design of this connection block makes it possible to place same in the Unilet without any fastening. It supports itself and remains in proper position without any interference from the swinging knob. Rating: 20-ampere, 125-volt.



Cat. No.	Block	Material	Std. Pkg.	Price Each
11385	2-Wire	Porc.	25	•

Cadmium finish is the standard finish.

•See Price List

CROUSE-HINDS CONDULETS

DISCOUNT SCHEDULE—Unless otherwise specified, Condulets carry Crouse-Hinds CD Schedule of terms and discounts.

FINISH—Unless otherwise indicated, the standard finish is cadmium-galvanized.

MATERIAL—Unless otherwise indicated, all Condulets are made of Feraloy, a special Crouse-Hinds alloy.

Crouse-Hinds "complete line" is more than just a range of sizes — **there is a Condulet for every need and purpose.**

Feraloy is a special alloy having the desirable characteristics of both cast steel and gray iron. It is the result of many years of study and development. Feraloy possesses high tensile strength and unusual resistance to corrosion.

Condulets will be found to stand up under the trying conditions of installation and subsequent use.

(Condulets are made only by Crouse-Hinds)

OBROUND SERIES CONDULETS

Form 7

Obround Condulets of the same size take the same covers and wiring devices.



Type A



Type C

Type A

Size In.	Threaded Thick Wall No.	Each	Threadless Thick Wall No.	Each	Thin Wall No.	Each
½	A17	$0.60	A197	$0.70	A17-MT	$0.70
¾	A27	.70	A297	.90	A27-MT	.90
1	A37	1.00	A397	1.20	A37-MT	1.20
1¼	A47	1.60	A497	2.20	A47-MT	2.20
1½	A57	2.08	A597	3.00	A57-MT	3.00
2	A67	4.28	A697	5.50	A67-MT	5.50
2½	A77	8.40	A797	11.00	.....	.....
3	A87	10.00	A897	13.00	.....	.....
3½	A97	14.00	A997	20.00	.....	.....
4	A107	18.00	A1097	24.00	.....	.....

Type C

½	C17	$0.77	C197	$1.00	C17-MT	$1.00
¾	C27	.86	C297	1.20	C27-MT	1.20
1	C37	1.30	C397	1.80	C37-MT	1.80
1¼	C47	2.10	C497	3.00	C47-MT	3.00
1½	C57	2.80	C597	4.20	C57-MT	4.20
2	C67	4.80	C697	7.00	C67-MT	7.00
2½	C77	10.00	C797	14.00	.....	.....
3	C87	13.00	C897	18.00	.....	.....
3½	C97	21.00	C997	28.00	.....	.....
4	C107	24.00	C1097	33.00	.....	.....

OBROUND SERIES CONDULETS

Type B



One-Piece Body



Two-Piece Body

One-Piece Body

Size In.	Threaded Thick Wall No.	Each	Threadless Thick Wall No.	Each	Thin Wall No.	Each
½	B17	$0.60	B197	$0.70	B17-MT	$0.70
¾	B27	.70	B297	.90	B27-MT	.90
1	B37	1.00	B397	1.20	B37-MT	1.20
Two-Piece Body						
1¼	B47	2.50	B497	2.96	B47-MT	2.96
1½	B57	3.00	B597	3.68	B57-MT	3.68
2	B67	5.20	B697	6.40	B67-MT	6.40
2½	B77	16.30	B797	18.30	.....	.....
3	B87	18.00	B897	20.60	.....	.....
3½	B97	30.50	B997	34.00	.....	.....
4	B107	34.00	B1097	38.50	.....	.....

Type F

Type F is not furnished in the threadless.



Size In.	Threaded—Thick Wall No.	Each
½	F17	$1.40
¾	F27	2.00
1	F37	2.90
1¼	F47	5.60
1½	F57	7.00
2	F67	10.00
2½	F77	19.00
3	F87	21.00
3½	F97	39.00
4	F107	50.00
4½	F0117	90.00
5	F0127	95.00
6	F0147	100.00

CROUSE-HINDS CONDULETS
OBROUND SERIES CONDULETS



Type E



Type LB



Type LR



Type LL



Type LF

Type E

Size In.	Threaded Thick Wall No.	Threaded Thick Wall Each	Threadless Thick Wall No.	Threadless Thick Wall Each	Threadless Thin Wall No.	Threadless Thin Wall Each
½	E17	$0.60	E197	$0.70	E17-MT	$0.70
¾	E27	.70	E297	.90	E27-MT	.90
1	E37	1.00	E397	1.20	E37-MT	1.20
1¼	E47	1.60	E497	2.20	E47-MT	2.20
1½	E57	2.08	E597	3.00	E57-MT	3.00
2	E67	4.28	E697	5.50	E67-MT	5.50
2½	E77	8.40	E797	11.00	.....	.....
3	E87	10.00	E897	13.00	.....	.....
3½	E97	14.00	E997	20.00	.....	.....
4	E107	18.00	E1097	24.00	.....	.....

Type LB

⅛	LB187	$0.60	.....	.....	.....	.....
¼	LB287	.60	.....	.....	.....	.....
⅜	LB387	.70	.....	.....	.....	.....
½	LB17	.77	LB197	$1.00	LB17-MT	$1.00
¾	LB27	.86	LB297	1.20	LB27-MT	1.20
1	LB37	1.30	LB397	1.80	LB37-MT	1.80
1¼	LB47	2.10	LB497	3.00	LB47-MT	3.00
1½	LB57	2.80	LB597	4.20	LB57-MT	4.20
2	LB67	4.80	LB697	7.00	LB67-MT	7.00
2½	LB777	10.00	LB797	14.00	.....	.....
3	LB87	13.00	LB897	18.00	.....	.....
3½	LB97	21.00	LB997	28.00	.....	.....
4	LB107	24.00	LB1097	33.00	.....	.....

Type LR

⅛	LR187	$0.60	.....	.....	.....	.....
¼	LR287	.60	.....	.....	.....	.....
⅜	LR387	.70	.....	.....	.....	.....
½	LR17	.77	LR197	$1.00	LR17-MT	$1.00
¾	LR27	.86	LR297	1.20	LR27-MT	1.20
1	LR37	1.30	LR397	1.80	LR37-MT	1.80
1¼	LR47	2.10	LR497	3.00	LR47-MT	3.00
1½	LR57	2.80	LR597	4.20	LR57-MT	4.20
2	LR67	4.80	LR697	7.00	LR67-MT	7.00
2½	LR777	10.00	LR797	14.00	.....	.....
3	LR87	13.00	LR897	18.00	.....	.....
3½	LR97	21.00	LR997	28.00	.....	.....
4	LR107	24.00	LR1097	33.00	.....	.....

Type LL

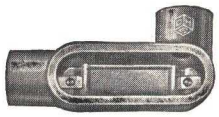
⅛	LL187	$0.60	.....	.....	.....	.....
¼	LL287	.60	.....	.....	.....	.....
⅜	LL387	.70	.....	.....	.....	.....
½	LL17	.77	LL197	$1.00	LL17-MT	1.00
¾	LL27	.86	LL297	1.20	LL27-MT	1.20
1	LL37	1.30	LL397	1.80	LL37-MT	1.80
1¼	LL47	2.10	LL497	3.00	LL47-MT	3.00
1½	LL57	2.80	LL597	4.20	LL57-MT	4.20
2	LL67	4.80	LL697	7.00	LL67-MT	7.00
2½	LL777	10.00	LL797	14.00	.....	.....
3	LL87	13.00	LL897	18.00	.....	.....
3½	LL97	21.00	LL997	28.00	.....	.....
4	LL107	24.00	LL1097	33.00	.....	.....

Type LF

½	LF17	$0.80	LF197	$1.00	LF17-MT	$1.00
¾	LF27	.90	LF297	1.20	LF27-MT	1.20
1	LF37	1.30	LF397	1.80	LF37-MT	1.80
1¼	LF47	2.10	LF497	3.00	LF47-MT	3.00
1½	LF57	2.80	LF597	4.20	LF57-MT	4.20
2	LF67	4.80	LF697	7.00	LF67-MT	7.00
2½	LF777	10.00	.....	.....	.....	.....
3	LF87	13.00	.....	.....	.....	.....

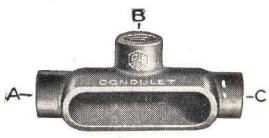
CROUSE-HINDS CONDULETS
OBROUND SERIES CONDULETS

Type L

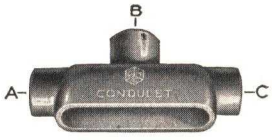


Type L is a double-faced Condulet which may be used either as an LL or LR Condulet. It has two openings, one of which is furnished with a blank sheet steel cover.

Size In.	Threaded Thick Wall No.	Threaded Thick Wall Each	Threadless Thick Wall No.	Threadless Thick Wall Each	Threadless Thin Wall No.	Threadless Thin Wall Each
½	L17	$0.80	L197	$0.10	L17-MT	$1.00
¾	L27	.90	L297	1.20	L27-MT	1.20
1	L37	1.30	L397	1.80	L37-MT	1.80
1¼	L47	2.10	L497	3.00	L47-MT	3.00
1½	L57	2.80	L597	4.20	L57-MT	4.20
2	L67	4.80	L697	7.00	L67-MT	7.00



Type T



Type TB

Type T

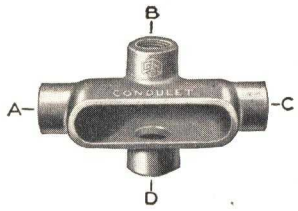
Size Inches A	B	C	Threaded Thick Wall No.	Threaded Thick Wall Each	Threadless Thick Wall No.	Threadless Thick Wall Each	Threadless Thin Wall No.	Threadless Thin Wall Each
⅛ -	⅛ -	⅛	T187	$0.66	.....	.....	.....	.....
¼ -	¼ -	¼	T287	.66	.....	.....	.....	.....
⅜ -	⅜ -	⅜	T387	.80	.....	.....	.....	.....
½ -	½ -	½	T17	.94	T197	$1.30	T17-MT	$1.30
½ -	¾ -	½	T127	1.12	.....	.....	T127-MT	1.52
½ -1	-	½	T137	1.26	.....	.....	.....	.....
¾ -	½ -	¾	T217	1.14	T2197	1.68	T217-MT	1.68
¾ -	¾ -	¾	T27	1.10	T297	1.60	T27- MT	1.60
¾ -1	-	¾	T237	1.30	.....	.....	.....	.....
¾ -1	½ -	¾	T257	1.80	.....	.....	.....	.....
1 -	½ -1		T317	1.60	T3197	2.38	T317-MT	2.38
1 -	¾ -1		T327	1.60	T3297	2.38	T327-MT	2.38
1 -1	-1		T37	1.60	T397	2.20	T37- MT	2.20
1 -2	-1		T367	2.90	.....	.....	.....	.....
1¼ -	½ -1¼		T417	2.44	T4197	3.82	T417-MT	3.82
1¼ -	¾ -1¼		T427	2.44	T4297	3.82	T427-MT	3.82
1¼ -1	-1¼		T437	2.44	T4397	3.82	T437-MT	3.82
1¼ -1¼	-1¼		T47	2.44	T497	3.80	T47- MT	3.80
1¼ -1½	-1¼		T457	3.00	.....	.....	T457-MT	5.10
1¼ -2	-1¼		T467	3.92	.....	.....	T467-MT	6.32
1½ -	½ -1½		T517	3.38	.....	.....	T517-MT	5.28
1½ -	¾ -1½		T527	3.38	.....	.....	T527-MT	5.38
1½ -1	-1½		T537	3.38	.....	.....	.....	.....
1½ -1¼	-1½		T547	3.38	.....	.....	T547-MT	5.78
1½ -1½	-1½		T57	3.38	T597	5.40	T57- MT	5.40
1½ -2	-1½		T567	5.04	.....	.....	T567-MT	8.04
2 -	½ -2		T617	5.10	.....	.....	T617-MT	7.60
2 -	¾ -2		T627	5.10	.....	.....	T627-MT	7.70
2 -1	-2		T637	5.10	.....	.....	.....	.....
2 -1¼	-2		T647	5.10	.....	.....	.....	.....
2 -1½	-2		T657	5.10	.....	.....	T657-MT	8.40
2 -2	-2		T67	5.10	T697	8.60	T67- MT	8.60
2½ -1	½ -2	½	T7577	10.00	.....	.....	.....	.....
2½ -2	-2	½	T7677	10.00	.....	.....	.....	.....
2½ -2	½ -2	½	T77	10.00	T797	16.00	.....	.....
3 -2	-3		T867	15.00	.....	.....	.....	.....
3 -3	-3		T87	15.00	T897	22.00	.....	.....
3½ -2	½ -3	½	T977	22.00	.....	.....	.....	.....
3½ -3	½ -3	½	T97	22.00	T997	32.00	.....	.....
4 -4	-4		T107	26.00	T10097	38.00	.....	.....

Type TB

⅛ -	⅛ -	⅛	TB187	$0.66	.....	.....	.....	.....
¼ -	¼ -	¼	TB287	.66	.....	.....	.....	.....
⅜ -	⅜ -	⅜	TB387	.80	.....	.....	.....	.....
½ -	½ -	½	TB17	.96	TB197	$1.30	TB17-MT	$1.30
¾ -	¾ -	¾	TB27	1.14	TB297	1.60	TB27-MT	1.60
¾ -1	-	¾	TB237	1.30	.....	.....	.....	.....
1 -	½ -1		TB317	1.60	.....	.....	TB317-MT	2.30
1 -	¾ -1		TB327	1.60	.....	.....	TB327-MT	2.40
1 -1	-1		TB37	1.60	TB397	2.20	TB37-MT	2.20
1¼ -1	¼ -1	¼	TB47	2.44	TB497	3.80	TB47-MT	3.80
1½ -1	½ -1	½	TB57	3.38	TB597	5.40	TB57-MT	5.40
2 -2	-2		TB67	5.10	TB697	8.60	TB67-MT	8.60
2½ -2	½ -2	½	TB77	10.00	TB797	16.00	.....	.....
3 -3	-3		TB87	15.00	TB897	22.00	.....	.....
3½ -3	½ -3	½	TB97	22.00	TB997	32.00	.....	.....
4 -4	-4		TB107	26.00	TB10097	38.00	.....	.....

CROUSE-HINDS CONDULETS

OBROUND SERIES CONDULETS



Type X

Sizes of hubs are indicated by sequence of letters.

The size of the cover or wiring device for a type X Condulet is the same as size of hubs at ends of cover opening.

Size In.	Threaded Thick Wall No.	Threaded Thick Wall Each	Threadless Thick Wall No.	Threadless Thin Wall No.	Threadless Thin Wall Each
½-½-½-½	X17	$1.20	X197	X17-MT	$1.60
¾-½-½-½	X21117	1.54	.....	X21117-MT	2.04
¾-½-¾-½	X217	1.54	.....	X217-MT	2.14
¾-¾-¾-¾	X27	1.54	X297	X27-MT	2.20
1-½-1-½	X317	2.10	X3197	.....	3.14
1-¾-1-¾	X327	2.10	.....	.....	.....
1-1-1-1	X37	2.10	X397	X37-MT	3.00
1¼-½-1¼-½	X417	2.80	.....	.....	.....
1¼-¾-1¼-¾	X427	2.80	.....	.....	.....
1¼-1¼-1¼-1¼	X47	2.80	X497	X47-MT	4.60
1½-¾-1½-¾	X527	3.56	.....	X527-MT	5.76
1½-1½-1½-1½	X57	3.56	X597	X57-MT	6.20
2-2-2-2	X67	7.00	X697	X67-MT	11.00
2½-2½-2½-2½	X77	12.00	.....	.....	.....
3-3-3-3	X87	20.00	.....	.....	.....

COVERS FOR OBROUND SERIES CONDULETS

Knockout Covers*

Composition



1, 2 or 3-Wire

Size In.	Diam. Knockouts In.	No.	Each
½	1—⅞ 2—⅝	1773	$0.20
¾	3—⅞	2773	.30
1	3—1½	3773	.50



2, 3, 4 or 5-Wire

1¼	5—⅝	4775	.72
1½	5—1⅛	5775	.72
2	2—1⅛ 3—⅞	6775	1.20

Wire Hole Covers*

Porcelain and Composition



1-Wire Special†

Size In.	Diam. Hole In.	Porcelain No.	Porcelain Each	Composition No.	Composition Each
½	⅝	.....	.....	1771S	$0.20
¾	23/32	.....	.....	2771S	.30
1	1	.....	.....	3771S	.50
1¼	1⅛	.....	.....	4771S	1.00



1-Wire Standard†

1½	1⅜	571	$0.72	5771	$1.00
2	1¾	.....	.....	6771	1.20
2½, 3	2⅛	871	1.60	8771	3.20
3½, 4	3¼	971	1.80	9771	5.00
4½,5,6	3¼	.....	.....	14771	8.00



2-Wire†

2½, 3	7/16	872	$1.60	8772	$3.20
3½, 4	1⅛	972	1.80	9772	5.00
4½,5,6	2¼	.....	.....	14772	8.00

3-Wire†

2½	1⅞	873	$1.60	8773	$3.20
3½, 4	1⅛	973	1.80	9773	5.00
4½,5,6	2¼	.....	.....	14773	8.00



4-Wire†

½	⅝	.....	.....	1774	$0.20
¾	13/16	.....	.....	2774	.30
1	23/32	.....	.....	3774	.50
2½, 3	1⅞	874	$1.60	8774	3.20
3½, 4	1⅛	974	1.80	9774	5.00
4½,5,6	1⅞	.....	.....	14774	8.00

*For special drilling use blank composition covers.

†Use knockout covers for sizes not shown.

CROUSE-HINDS CONDULETS

COVERS FOR OBROUND SERIES CONDULETS

Wire Hole Covers*

Porcelain and Composition



5-Wire†

Size In.	Diam. Hole In.	Porcelain No.	Porcelain Each	Composition No.	Composition Each
¾	13/16	.....	.....	2775	$0.30
1	23/32	.....	.....	3775	.50
2½, 3	1⅞	875	$1.60	8775	3.20
3½, 4	1½	.....	.....	9775	5.00
4½,5,6	1⅞	.....	.....	14775	8.00



6-Wire

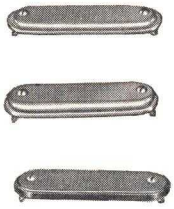
¾	13/16	.....	.....	2776	$0.30
1	23/32	.....	.....	3776	.50
1¼	½	476	$0.72	4776	1.00
1½	17/32	576	.72	5776	1.00
2	⅝	.....	.....	6776	1.20
2½, 3	⅞	.....	.....	8776	3.20
3½, 4	1⅞	.....	.....	9776	5.00
4½,5,6	1⅞	.....	.....	14776	8.00

*For special drilling use blank composition covers.
†Use knockout covers for sizes not shown.

Blank Covers

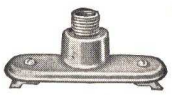
Sheet Steel, Cast Feraloy, and Composition

Special drilling at additional charge: Up to 1″ diam., **$0.30** per hole; 1″ and larger, **$0.50** per hole.



Size In.	Sheet Steel No.	Sheet Steel Each	Cast Feraloy No.	Cast Feraloy Each	Composition No.	Composition Each
⅛	1870	$0.12	.....	.....	18770	$0.40
¾	2870	.12	.....	.....	28770	.40
⅜	3870	.12	.....	.....	38770	.40
½	170	.11	170f	$0.32	1770	.20
¾	270	.15	270f	.44	2770	.30
1	370	.34	370f	.70	3770	.50
1¼	470	.48	470f	1.00	4770	1.00
1½	570	.48	570f	1.00	5770	1.00
2	670	.84	670f	1.40	6770	1.20
2½, 3	870	1.12	870f	1.50	8770	3.20
3½, 4	970	1.20	970f	1.60	9770	5.00
4½,5,6	.....	.....	.....	.....	14770	8.00

Cast Feraloy Covers with Nipples



With Male Nipple



With Female Nipple

In.	With ⅛-Inch Nipple Male No.	Male Each	Female No.	Female Each
½	1721	$0.40	1731	$0.40
¾	2721	.50	2731	.50
1	3721	.70	3731	.70
	With ¼-Inch Nipple			
½	1722	$0.46	1732	$0.46
¾	2722	.56	2732	.56
1	3722	.76	3732	.76
	With ⅜-Inch Nipple			
½	1723	$0.50	1733	$0.50
¾	2723	.60	2733	.60
1	3723	.80	3733	.80
	With ½-Inch Nipple			
½	1724	$0.60	1734	$0.60
¾	2724	.70	2734	.70
1	3724	.90	3734	.90
1¼	4724	1.12	4734	1.12
1½	5724	1.12	5734	1.12

Sheet Steel Covers with Cord Clamps

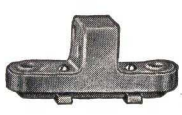
Provided with cord clamp and bushed hole which safeguards the drop cord. Takes cord ¼ to ⅜-inch diameter.



Size In.	No.	Each
½	1972	$0.60
¾	2972	.70

Porcelain Covers

For Weatherproof Sockets—2-Wire



Size In.	Diam. Hole In.	No.	Each
½	⅝	1781	$0.40
¾	⅝	2781	.50

CROUSE-HINDS CONDULETS

WIRING DEVICES FOR OBROUND SERIES CONDULETS



Composition

2-Pole Attachment Plug Receptacles

15 Amp., 125V. or 10 Amp., 250V.

Single, with Double T Slots

Size In.	Composition No.	Composition Each	Porcelain No.	Porcelain Each
½	1715	$1.20	1705	$1.20
¾	2715	1.40	2705	1.40
1	3715	1.80	3705	1.80



Composition

Duplex, with Parallel Slots

½	1748	$1.20	.....	.....
¾	2748	1.40	.....	.....
1	3748	1.80	.....	.....



Composition

Duplex, with Double T Slots

½	1725	$1.80	.....	.....
¾	2725	2.00	.....	.....
1	3725	2.50	.....	.....

2-Pole Polarity Plug Receptacles

15 Amp., 125V. or 10 Amp., 250V.

Size In.	Composition No.	Composition Each	Porcelain No.	Porcelain Each
½	*1728	$1.20	*1708	$1.20
¾	*2728	1.40	*2708	1.40
1	*3728	1.80	*3708	1.80
	20 Amperes, 250 Volts			
½	1738	$1.30	1718	$1.40
¾	2738	1.50	2718	1.60
1	3738	1.90	3718	2.00



Composition

Attachment Plug Receptacles

3-Wire, 3-Pole

15 Amp., 125V. or 10 Amp., 250V.

Size In.	Composition No.	Composition Each	Porcelain No.	Porcelain Each
½	.....	.....	1709	$1.50
¾	.....	.....	2709	1.60
	20 Amperes, 250 Volts			
½	.....	.....	1719	$1.80
¾	.....	.....	2719	2.00



Porcelain 3-Wire

2-Wire, 3-Pole

Extra Pole Grounded

15 Amp., 125V. or 10 Amp., 250V.

Size In.	Composition No.	Composition Each	Porcelain No.	Porcelain Each
½	.....	.....	1729	$1.70
¾	.....	.....	2729	1.80
	20 Amperes, 250 Volts			
½	.....	.....	1739	$2.00
¾	.....	.....	2739	2.20



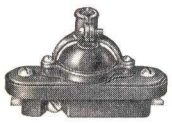
Composition, With Groove

Lamp Receptacles

660 Watts, 600 Volts

With Shade Holder Groove

Size In.	Composition No.	Composition Each	Porcelain No.	Porcelain Each
½	1726	$0.90	1706	$0.90
¾	2726	1.00	2706	1.00
1	3726	1.40	3706	1.40



Composition

Cord Rosettes

660 Watts, 250 Volts

Size In.	Composition No.	Composition Each	Porcelain No.	Porcelain Each
½	1720	$1.90	1700	$1.20
¾	2720	2.10	2700	1.40
1	3720	2.50	3799	1.80



Porcelain

*Takes Hubbell No. 5567 polarized plug. For parallel blade polarity plugs, use Nos. 1705, 1715, 1725, 2705, 2715, 2725, 3705, 3715, and 3725 receptacles.

Prices for receptacles listed above do not include attachment plugs.

If specified on the order, lamp receptacle with lamp grip will be furnished at an advance in price of 20 cents.

CROUSE-HINDS CONDULETS

ALUMINUM COVERS

Take P&S-Despard, Bryant, Hubbell, Arrow-H&H and GE Interchangeable wiring devices. Mounting bridge required to install wiring device; furnished with each cover listed below.



Without Guard

Size In.	No.	Each
½	1755	$0.60
¾	2755	.80



With Guard

For Switches Only

½	1785	$0.70

VAPORTIGHT SWITCH COVERS

With gasket and mounting strap for switches. Take P&S-Despard, Bryant, Hubbell, Arrow-H&H, and G-E Interchangeable switches.



Size In.	No.	Each
½	1766	$2.80
¾	2766	3.00
1	3766	3.20

Gaskets for Obround Series Condulets



Solid Type—For use with blank sheet steel and cast Feraloy covers.



Open Type—For use with composition covers, wire-hole covers, and wiring devices.

In.	GASK SOLID TYPE Rubber	SOLID TYPE Cork	SOLID TYPE Vellumoid	OPEN TYPE Rubber	OPEN TYPE Cork	Each
½	571	671	771	471	371	$0.20
¾	572	672	772	472	372	.20
1	573	673	773	473	373	.30
1¼	574	674	774	474	374	.40
1½	575	675	775	475	375	.40
2	576	676	776	476	376	.50
2½ or 3	578	678	778	478	378	.80
3½ or 4	579	679	779	479	379	1.00

Adapters for Obround Series Condulets

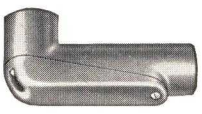


For Adapting Condulets

Size In.	No.	Each
1	731	$0.70
1¼	741	1.00
1½	751	1.40
2	761	1.80

Type LBD Condulets

For use when it is necessary to make a 90° bend in the conduit system. Arrangement of cover opening allows conductors to be pulled straight through either hub. Furnished with blank cast Feraloy cover.



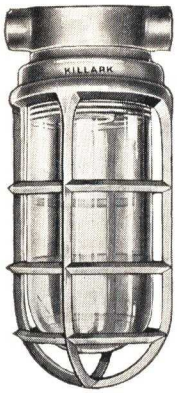


Size In.	No.	Each
½	LBD1100	$1.30
¾	LBD2200	1.60
1	LBD3300	2.40
1¼	LBD4400	6.50
1½	LBD5500	11.50
2	LBD6600	12.50
2½	LBD7700	23.50
3	LBD8800	28.50
3½	LBD9900	46.50
4	LBD10900	52.00
4½	LBD011	70.00
5	LBD012	80.00
6	LBD014	150.00

Gaskets for LBD Condulets

Size	No.	Each	Size	No.	Each
½	Gask 680R	$0.20	2½ or 3	Gask 685R	$3.00
¾	Gask 681R	.30	3½ or 4	Gask 686R	3.50
1	Gask 682R	.40	4½ or 5	Gask 687R	7.00
1¼	Gask 683R	.60	6	Gask 688R	10.00
1½ or 2	Gask 684R	1.20	.....	.....	.....

KILLARK VAPORPROOF LIGHT FITTINGS



ASSEMBLED TYPE

The Fittings illustrated below consist of round splice box, fixture cap, globe and guard. For use with exposed conduit.

Complete Assembly: No. 100 takes up to 100-watt lamp. No. 200 takes up to 200-watt lamp.



VUA

Type VUA

Conduit Size	Std. Pkg.	Wt. Std. Pkg.	Cat. No.	With Globe Less Guard	Complete With Guard
½	10	38	VUA1-100	$4.90	$8.50
¾	10	38	VUA2-100	5.10	8.70
½	10	50	VUA1-200	6.00	10.50
¾	10	50	VUA2-200	6.20	10.70



VUC

Type VUC

½	10	38	VUC1-100	5.00	8.60
¾	10	38	VUC2-100	5.20	8.80
½	10	50	VUC1-200	6.00	10.60
¾	10	50	VUC2-200	6.30	10.80



VUCA

Type VUCA

½	10	40	VUCA1-100	5.40	9.00
¾	10	40	VUCA2-100	5.60	9.10
½	10	55	VUCA1-200	6.30	10.80
¾	10	55	VUCA2-200	6.50	11.00



VUH

Type VUH

½	10	38	VUH1-100	4.80	8.40
¾	10	38	VUH2-100	5.00	8.60
½	10	50	VUH1-200	5.90	10.40
¾	10	50	VUH2-200	3.15	10.60



VUHA

Type VUHA

½	10	38	VUHA1-100	5.10	8.70
¾	10	38	VUHA2-100	5.30	8.90
½	10	50	VUHA1-200	6.00	10.50
¾	10	50	VUHA2-200	6.10	10.70

KILLARK VAPORPROOF LIGHT FITTINGS

ASSEMBLED TYPE



PARTS

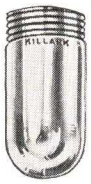
Splice Box



Guard and Globe Holder with Receptacle



Guard



Globe



VUL

Type VUL

Conduit Size	Std. Pkg.	Wt. Std. Pkg.	Cat. No.	With Globe Less Guard	Complete With Guard
½	10	40	VUL1-100	$5.10	$8.70
¾	10	40	VUL2-100	5.30	8.90
½	10	55	VUL1-200	6.20	10.70
¾	10	55	VUL2-200	6.40	10.90



VULA

Type VULA

½	10	40	VULA1-100	5.40	9.00
¾	10	40	VULA2-100	5.60	9.20
½	10	55	VULA1-200	6.30	10.80
¾	10	55	VULA2-200	6.50	11.00



VUT

Type VUT

½	10	40	VUT1-100	5.40	9.00
¾	10	40	VUT2-100	5.60	9.20
½	10	55	VUT1-200	6.50	11.00
¾	10	55	VUT2-200	6.70	11.20



VUTA

Type VUTA

½	10	40	VUTA1-100	4.70	9.30
¾	10	40	VUTA1-100	4.90	9.50
½	10	55	VUTA1-200	6.60	11.10
¾	10	55	VUTA2-200	6.80	11.30



VUX

Type VUX

½	10	40	VUX1-100	5.70	9.30
¾	10	40	VUX2-100	5.90	9.50
½	10	55	VUX1-200	6.80	11.30
¾	10	55	VUX2-200	7.00	11.50

KILLARK VAPORPROOF LIGHT FITTINGS

SPLICE BOXES


Type VGA


Type VGC


Type VGH


Type VGL


Type VGT


Type VGX

Cat. No.	Conduit Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
VGA-1	½	10	11	$0.90
VGA-2	¾	10	13½	1.10
VGC-1	½	10	11½	1.00
VGC-2	¾	10	15	1.20
VGH-1	½	10	11	.80
VGH-2	¾	10	13½	1.00
VGL-1	½	10	11½	1.10
VGL-2	¾	10	15	1.30
VGT-1	½	10	12	1.40
VGT-2	¾	10	18	1.60
VGX-1	½	10	15	1.70
VGX-2	¾	10	20	1.90

FIXTURE CAP FOR HOLDING GUARD AND GLOBE

Attached to splice boxes.



Cat. No.	Max. Size of Lamps	Price Each
VFC-100	100 watts	$2.40
VFC-200	200 watts	3.50



GLOBES

100-Watt for A-21 Lamps

200-Watt for PS-30 Lamps

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.		Price Each
VCG-100	12	16	Clear	$1.60
VCG-200	12	30	Clear	1.60
VGG-100	12	16	Green	3.40
VGG-200	12	30	Green	4.70
VRG-100	12	16	Red	3.40
VRG-200	12	30	Red	4.70
VOG-100	12	16	Orange	3.40
VOG-200	12	30	Orange	4.70
VBG-100	12	16	Blue	3.40
VBG-200	12	30	Blue	4.70
VOPG-100	12	16	Opal	2.20
VOPG-200	12	30	Opal	3.40

KILLARK VAPORPROOF LIGHT FITTINGS



ALUMINUM GUARDS

Cat. No.	Size of Lamp Watts	Std. Pkg.	Pkg. Wt.	Price Each
VAG-200	100	10	15	$3.60
VAG-200	200	10	15	4.50

COVERS FOR SPLICE BOXES

Cat. No.	Style	Price Each
VB	Blank Cover	$0.16
VG	With ½-inch Threaded Cover	.90


VB


VG



OUTLET BOX MOUNTING PLATE

Interchangeable for 100-watt or 200-watt. For 3¼-inch or 4-inch outlet boxes.

Cat. No.	Description	Price Each
VFP	Outlet Box Mounting Plate	$0.60

WALL BRACKET

This wall mounting bracket is interchangeable for 100-watt or 200-watt.

Cat. No.	Description	Price Each
VFL	Wall Bracket	$0.80



ONE-PIECE TYPE

This type differs from the assembled type in that the globe and guard thread directly on the splice box. Can be used with 100-watt reflector.


Type V


Type VA


Type VC

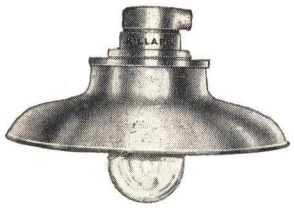

Type VL

Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	Cat. No.	Price Each With Globe and Guard	Price Each Less Globe and Guard
½	10	55	V -1	$8.40	$3.20
¾	10	57	V -2	8.60	3.40
½	10	55	VA-1	8.50	3.30
¾	10	57	VA-2	8.70	3.50
½	10	60	VC-1	8.60	3.40
¾	10	60	VC-2	8.80	3.60
½	10	60	VL-1	8.70	3.50
¾	10	60	VL-2	8.90	3.70

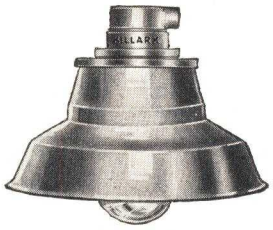
One-piece Vaporproof Light Fittings with other hub combinations available. Prices on request.

KILLARK VAPORPROOF LIGHT FITTINGS

COMPLETE WITH REFLECTOR—NO GUARD



Shallow



Standard

Reflector dimensions: 100-watt, 12-inch; 150-watt, 14-inch; 200-watt, 16-inch.

Guards can be used with reflector only on special fittings, which can be furnished when specified. List prices of fittings with reflectors include Reflector Holders VRH.

One-Piece Type, for 100-Watt Lamps, Size A-21 or Smaller

Cat. No.	Hub Arrangement	Conduit Size Inches	Complete Assembly with Reflectors: Shallow Bowl	Standard Dome	Angle
V-1-R	V	½	.....	.....	.....
V-2-R	V	¾	.....	.....	.....
VA-1-R	VA	½	.....	.....	.....
VA-2-R	VA	¾	.....	.....	.....
VC-1-R	VC	½	.....	.....	.....
VC-2-R	VC	¾	.....	.....	.....
VL-1-R	VL	½	.....	.....	.....
VL-2-R	VL	¾	.....	.....	.....
VT-1-R	VT	½	.....	.....	.....
VT-2-R	VT	¾	.....	.....	.....
VX-1-R	VX	½	.....	.....	.....
VX-2-R	VX	¾	.....	.....	.....

Two-Piece Type, for 100-Watt Lamps, Size A-21 or Smaller

VUH-1-100-R	VUH	½	.....	.....	.....
VUH-2-100-R	VUH	¾	.....	.....	.....
VUC-1-100-R	VUC	½	.....	.....	.....
VUC-2-100-R	VUC	¾	.....	.....	.....
VUL-1-100-R	VUL	½	.....	.....	.....
VUL-2-100-R	VUL	¾	.....	.....	.....
VUT-1-100-R	VUT	½	.....	.....	.....
VUT-2-100-R	VUT	¾	.....	.....	.....
VUX-1-100-R	VUX	½	.....	.....	.....
VUX-2-100-R	VUX	¾	.....	.....	.....
VUA-1-100-R	VUA	½	.....	.....	.....
VUA-2-100-R	VUA	¾	.....	.....	.....

Two-Piece Type, for 150-Watt Lamps, Size PS-25 or Smaller

VUH-1-150-R	VUH	½	.....	.....	.....
VUH-2-150-R	VUH	¾	.....	.....	.....
VUC-1-150-R	VUC	½	.....	.....	.....
VUC-2-150-R	VUC	¾	.....	.....	.....
VUL-1-150-R	VUL	½	.....	.....	.....
VUL-2-150-R	VUL	¾	.....	.....	.....
VUT-1-150-R	VUT	½	.....	.....	.....
VUT-2-150-R	VUT	¾	.....	.....	.....
VUX-1-150-R	VUX	½	.....	.....	.....
VUX-2-150-R	VUX	¾	.....	.....	.....
VUA-1-150-R	VUA	½	.....	.....	.....
VUA-2-150-R	VUA	¾	.....	.....	.....

KILLARK VAPORPROOF LIGHT FITTINGS

COMPLETE WITH REFLECTOR — NO GUARD



Angle Type

Reflector dimensions: 75-watt, 12-inch; 150-watt, 14-inch; 200-watt, 16-inch.

Guards can be used with reflector only on special fittings, which can be furnished when specified. List prices of fittings with reflectors include Reflector Holders VRH.

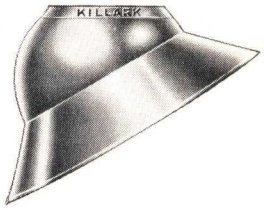
Two-Piece Type, for 200-Watt Lamps Size PS-30 or Smaller

Cat. No.	Hub Arrangement	Conduit Size Inches	Complete Assembly with Reflectors: Shallow Bowl	Standard Dome	Angle
VUH-1-200-R	VUH	½	.....	.....	.....
VUH-2-200-R	VUH	¾	.....	.....	.....
VUC-1-200-R	VUC	½	.....	.....	.....
VUC-2-200-R	VUC	¾	.....	.....	.....
VUL-1-200-R	VUL	½	.....	.....	.....
VUL-2-200-R	VUL	¾	.....	.....	.....
VUT-1-200-R	VUT	½	.....	.....	.....
VUT-2-200-R	VUT	¾	.....	.....	.....
VUX-1-200-R	VUX	½	.....	.....	.....
VUX-2-200-R	VUX	¾	.....	.....	.....
VUA-1-200-R	VUA	½	.....	.....	.....
VUA-2-200-R	VUA	¾	.....	.....	.....

REFLECTORS ONLY



Shallow



Angle



Standard

Reflectors can be supplied for all Killark vapor-tight fixtures.

100-Watt Cat. No.	100-Watt Price Each	150-Watt Cat. No.	150-Watt Price Each	200-Watt Cat. No.	200-Watt Price Each
		Shallow Bowl Reflectors			
6760K	$5.50	6761K	$6.00	6762K	$7.00
		Standard Dome Reflectors			
6750K	6.00	6751K	7.00	6752K	8.00
		Angle Reflectors			
6770K	4.50	6771K	6.00	6773K	7.50

REFLECTOR HOLDER SETS

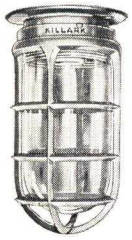
Cat. No.	Holders	Price Pair
VRH100	For 100-watt Reflectors	$1.10
VRH200	For 150 and 200-watt Reflectors	1.50



These holders included in list prices of complete assemblies.

KILLARK VAPORPROOF LIGHT FITTINGS

COMPLETE ASSEMBLIES



Assembly complete with outlet box plate, receptacle, globe and guard. For 3¼ or 4-inch outlet boxes.

With Guard

Size Watts	Cat. No.	Std. Pkg.	Pkg. Wt.	Price Each
100	VOBG-100	1	3⅛	$8.20
200	VOBG-200	1	4¼	10.20

Less Guard

100	VOB -100	1	3⅛	4.60
200	VOB -200	1	4¼	5.70

COMPLETE ASSEMBLIES



Assembly complete with outlet box plate, wall bracket, receptacle, globe and guard. Wall bracket interchangeable for 100-watt or 200-watt.

With Guard

Size Watts	Cat. No.	Std. Pkg.	Pkg. Wt.	Price Each
100	VOBLG100	1	3⅝	$9.00
200	VOBLG200	1	5¼	11.00

Less Guard

100	VOBL100	1	3⅝	5.40
200	VOBL200	1	5¼	6.50

PENDANT TYPE ASSEMBLY

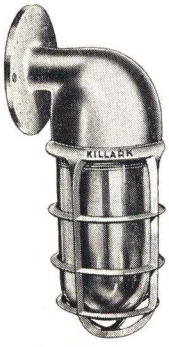


Vaporproof and dustproof light unit. Sloping top prevents accumulation of dust. Protected porcelain receptacle. For lamps up to 100-watt size only.

With Globe—No Guard

Conduit Size	Cat. No.	Std. Pkg.	Price Each
½	VAT-1	1	$3.80

WALL TYPE



Assembly complete with fixture cap, receptacle, globe, guard and mounting plate. For 3¼ or 4-inch outlet boxes (boxes not furnished).

With Globe and Guard

Size Watts	Conduit Size	Cat. No.	Price Each
100	½	VFBGG-110	$9.50
100	¾	VFBGG-210	9.70
200	½	VFBGG-120	11.00
200	¾	VFBGG-220	11.20

Standard package, 1; weight, 5 pounds.

KILLARK VAPORPROOF LIGHT FITTINGS

UNIVERSAL GLOBE AND GUARD FIXTURE CAP



100 Watt



100 Watt



200 Watt

Cat. No.	Conduit Size Inches	Maximum Size Lamp	Price Each
VXA-110	½	100	$3.80
VXA-210	¾	100	3.90
VXA-310	1	100	4.00
VXA-410	1¼	100	4.10
VXA-120	½	200	4.70
VXA-220	¾	200	4.80

Furnished with 5 internal hubs and 4 close-up plugs. This one receptacle can be used with any combination of hubs. Furnished less globe and guard.

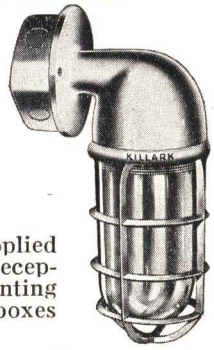
WALL TYPE FOR OUTLET BOX



Outlet Box Mounting Plate



Fixture Cap Less Globe and Guard



The complete assembly is supplied complete with fixture cap, receptacle, globe, guard and mounting plate. For 3¼ or 4-inch outlet boxes (box not furnished).

Assembly Complete—100 Watt

Conduit Size	Cat. No.	Std. Pkg.	Wt. Lbs.	Price Each
½	VFBGP-100	1	2	$11.00
¾	VFBGP-210	1	2	11.20

Fixture Cap—100 Watt

½	VFB-100	1	2	7.40
¾	VFB-210	1	2	7.60

Outlet Box Mounting Plate—100 Watt

----	VOLP	--	⅞	1.50

TYPE FHC FLEXIBLE FIXTURE HANGERS FOR PENDANT FIXTURES

For Use With Threaded Rigid Conduit



Series "FH" provides a flexible hanger for lighting fixtures. The universal joint permits the fixture stem to swing through an angle of 20 degrees in any direction from vertical. This feature assures that the fixture will hang plumb at all times. Breaking or bending of the fixture stem from unusual loads or accidental impact is eliminated. The fixture and stem are readily removed by taking off the cover, disconnecting the wires and sliding the ball out of its socket in the fitting. A lug is provided on the ball to prevent twisting of the stem in such a manner as to injure the wires.

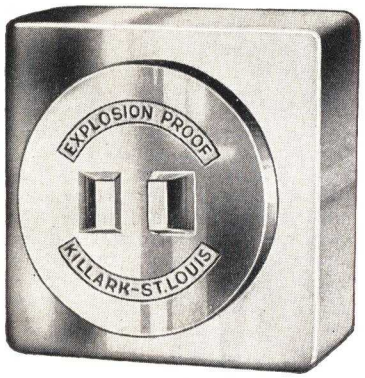
Cat. No.	Size Fixture Stem	Size Conduit	Std. Pkg.	Pkg. Wt.	Price Each
FHC-1	½	½	25	15	$1.50
FHC-21	½	¾	25	15	1.70
FHC-2	¾	¾	25	15	1.90

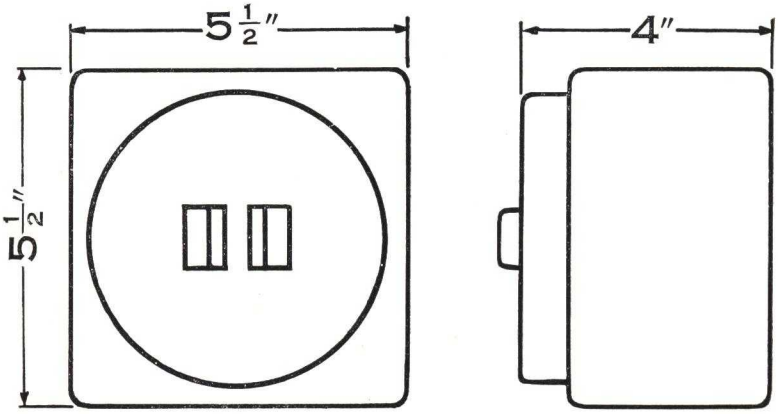
KILLARK EXPLOSION-PROOF CONDUIT FITTINGS

FOR HAZARDOUS PLACES

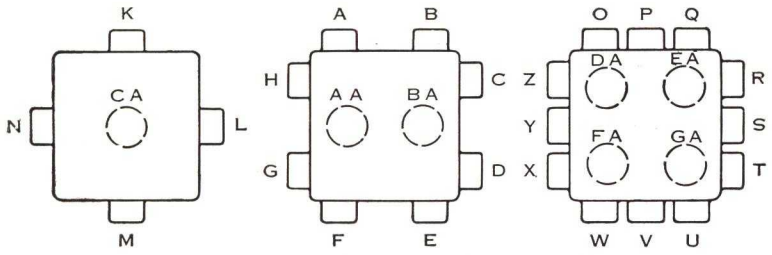
Listed as Standard for Class I, Group D Locations

Class I, Group C Locations; Class II, Group G Locations





Type GRD has a Screw Cover. Furnished with Threaded Internal Hubs or Union Hubs Body and Cover Without Hubs — $2.00 list



(Hubs Extended for Illustration Purposes Only)

The sketches to the left show the locations at which the various sized hubs can be placed. Each order for this series of fittings should clearly indicate by letters, at what position the conduit hubs should be located, and also what size and kind of hubs are wanted. The symbol for the various sizes and kinds of hubs will be found in the schedule below.

Note: Where only one hub is required on a side, it will be located in the center, unless otherwise specified.

THREADED INTERNAL HUBS AND UNION HUBS FOR TYPE GRD

Sizes In Which Hubs Can Be Furnished

Locations	Union Hubs	Threaded Internal Hubs
A–B–C–D–E–F–G–H	½–¾–1 Inch	½–¾–1–1¼ Inch
K–L–M–N	½–¾–1–1¼ Inch	½–¾–1–1¼ Inch
O–P–Q–R–S–T–U–V–W–X–Y–Z		½–¾ Inch
AA–BA	½–¾–1 Inch	½–¾–1–1¼–1½–2 Inch
CA	½–¾–1–1¼–1½–2 Inch	½–¾–1–1¼–1½–2 Inch
DA–EA–FA–GA	½–¾–1 Inch	½–¾–1 Inch

Threaded Hubs			Union Hubs		
Symbol No.	Size, Inches	List, Each	Symbol No.	Size, Inches	List, Each
1	½	**$1.20**	**11**	½	**$2.00**
2	¾	**1.30**	**12**	¾	**2.00**
3	1	**1.50**	**13**	1	**2.40**
4	1¼	**1.80**	**14**	1¼	**3.50**
5	1½	**2.30**	**15**	1½	**6.00**
6	2	**3.00**	**16**	2	**8.00**

For example: If you wish a fitting with a 1¼" Upper Union Hub and 2 Lower ¾" Threaded Hubs it would be called Type GRD with K-14 and FE-2 Hubs, price: **$2.00** plus **$1.75**, plus **$1.30** or a total of **$5.05.**

KILLARK EXPLOSION-PROOF FITTINGS
FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations Class I, Group C Locations; Class II Group G Locations

TYPE GRS SCREW COVER FITTINGS



Universal type of explosion-proof fitting with seven standard ¾-inch hubs. Unused hubs are shut off with close-up plugs. A hub in the back can also be furnished. A union connector can be inserted in any hub to take ½-inch or ¾-inch conduit.

Cat. No.	Hubs, Size	Wt. Lbs. Each	Price Each
GRS	(7)—¾ inch	1½	$5.80
GRSA	(8)—¾" One Hub in Back	1½	5.80

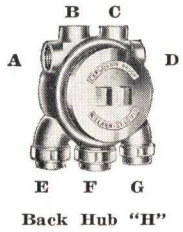
TYPE GESMU SCREW COVER FITTING

Roomy junction box with 1-inch center union hub. Upper hubs threaded, union hubs on lower side.

Threaded Hubs—A-B-C-D-H-¾" only.

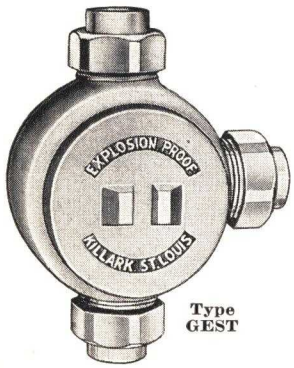
Union Hubs — E-G-½" or ¾"; F-1" only.

Furnished with four close-up plugs.



Back Hub "H"

Cat. No.	Hubs, Size	Wt. Lbs. Each	Price Each
GESMU	Threaded Hubs (5)—¼" (2)—½" or ¾" (1)—1"	5	$7.90



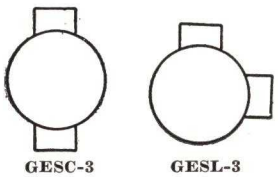
Type GEST

SERIES GES
(5-inch Diameter)

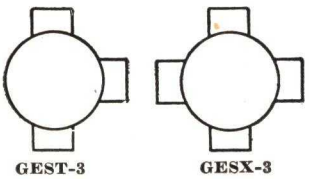
A round explosion-proof fitting 5 inches in diameter. Furnished with threaded screw cover.

Made of brass. 1-inch union hubs in any or all four directions.

Cat. No.	Size	Price Each
GESC-1	½	$6.20
GESC-2	¾	6.20
GESC-3	1	6.20
GESL-1	½	6.20
GESL-2	¾	6.20
GESL-3	1	6.20



GESC-3 GESL-3



GEST-3 GESX-3

Cat. No.	Size	Price Each
GEST-1	½	$7.60
GEST-2	¾	7.60
GEST-3	1	7.60
GESX-1	½	9.00
GESX-2	¾	9.00
GESX-3	1	9.00

KILLARK EXPLOSION-PROOF FITTINGS
FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations Class I, Group C Locations; Class II Group G Locations

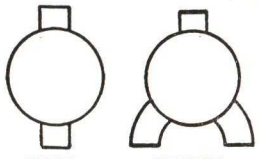
SERIES GEC — (3¾-INCH DIAMETER)



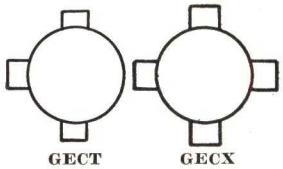
GECME

Round explosion-proof fittings, 3¾ inches in diameter. Made with a threaded screw cover. Number of union hubs up to three pointed downward and up to two pointed upward. Hubs are equipped with rings for either ½-inch or ¾-inch conduit. Rings are interchangeable, so that by removing a ½-inch ring and substituting a ¾-inch ring, union hubs can be changed from ½-inch to ¾-inch and vice versa. These fittings have threaded brass covers.

Cat. No.	Size	Price Each
GECC-1	½	$5.20
GECC-2	¾	5.20
GECUE-1	½	6.10
GECUE-2	¾	6.10



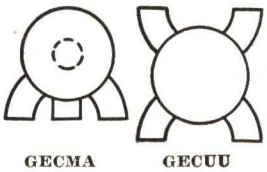
GECC GECUE



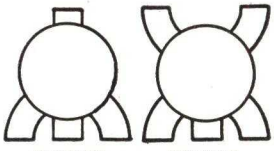
GECT GECX

Cat. No.	Size	Price Each
GECT-1	½	$6.10
GECT-2	¾	6.10
GECX-1	½	7.00
GECX-2	¾	7.00

Cat. No.	Size	Price Each
GECMA-1	½	$7.00
GECMA-2	¾	7.00
GECUU-1	½	7.00
GECUU-2	¾	7.00



GECMA GECUU



GECME GECMU

Cat. No.	Size	Price Each
GECME-1	½	$7.00
GECME-2	¾	7.00
GECMU-1	½	7.90
GECMU-2	¾	7.90

Cat. No.	Size	Wt. Lbs. Each	Price Each
GECTM-1	½	3⅝	$8.80
GECTM-2	¾	3⅝	8.80

Three standard hubs on top; three union hubs on bottom.



GECTM

Hub arrangements shown above are regularly carried in stock. Variations of these hub arrangements can be supplied on order.

Limit of conduit size in this series, ¾-inch.

Shipping weight: 2 hubs, 3 lbs.; 3 hubs, 3⅛ lbs.; 4 hubs, 3⅜ lbs.; 5 hubs, 3⅝ lbs.

Special fittings supplied on order.

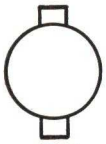
KILLARK EXPLOSION-PROOF FITTINGS
FOR HAZARDOUS PLACES
Listed as Standard for Class I, Group D Locations Class I, Group C Locations; Class II Group G Locations

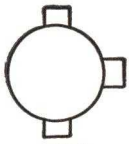
SERIES GE—(3-inch Diameter)

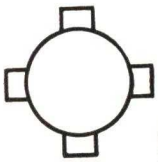

Type GEUE

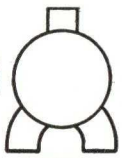
Round explosion-proof fittings, 3 inches in diameter. One or two union hubs pointing up or down. Each hub has a ½-inch or ¾-inch threaded ring. Rings are interchangeable so that one fitting may be used on ½- or ¾-inch conduit. These fittings have threaded brass covers.

Cat. No.	Size	Shpg. Wt.	Price Each
GEC-1	½	1¼	$4.50
GEC-2	¾	1¼	4.50
GET-1	½	1⅜	5.40
GET-2	¾	1⅜	5.40


GEC

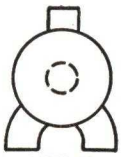

GET

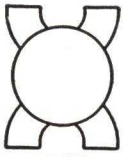

GEX


GEUE

Cat. No.	Size	Shpg. Wt.	Price Each
GEX-1	½	1½	$6.30
GEX-2	¾	1½	6.30
GEUE-1	½	1⅜	5.40
GEUE-2	¾	1⅜	5.40

Cat. No.	Size	Shpg. Wt.	Price Each
GEUEA-1	½	1½	$6.30
GEUEA-2	¾	1½	6.30
GEUU-1	½	1¾	6.30
GEUU-2	¾	1¾	6.30


GEUEA

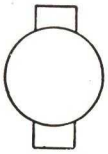

GEUU

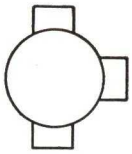
SERIES GEM—(2½-inch Diameter)

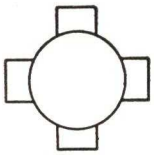

Type GEMX

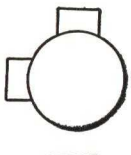
Round explosion-proof fitting, 2½ inches in diameter. Has a screw cover. One hub in any or all four directions or in back. Made with ½- or ¾-inch standard threaded hubs, but not with union hubs. A switch can be supplied with these fittings.

Cat. No.	Size	Shpg. Wt.	Price Each
GEMC-1	½	1¼	$3.10
GEMC-2	¾	1¼	3.30
GEMT-1	½	1⅜	3.30
GEMT-2	¾	1⅜	3.60


GEMC

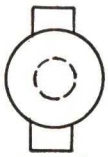

GEMT

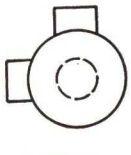

GEMX

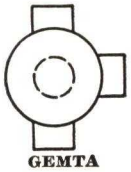

GEML

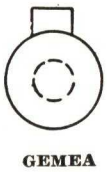
Cat. No.	Size	Shpg. Wt.	Price Each
GEMX-1	½	1½	$3.50
GEMX-2	¾	1½	3.90
GEML-1	½	1¼	3.10
GEML-2	¾	1¼	3.30

Cat. No.	Size	Shpg. Wt.	Price Each
GEMCA-1	½	1⅜	$3.30
GEMCA-2	¾	1⅜	3.60
GEMLA-1	½	1⅜	3.30
GEMLA-2	¾	1⅜	3.60


GEMCA

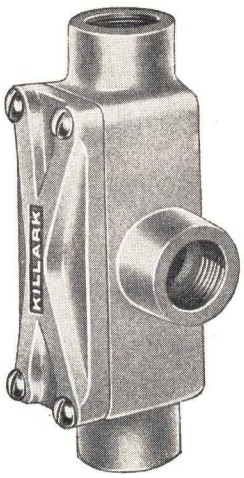

GEMLA


GEMTA


GEMEA

Cat. No.	Size	Shpg. Wt.	Price Each
GEMTA-1	½	1½	$3.50
GEMTA-2	¾	1½	3.90
GEMEA-1	½	1¼	3.10
GEMEA-2	¾	1¼	3.30

KILLARK EXPLOSION-PROOF FITTINGS
FOR HAZARDOUS PLACES
Listed as Standard for Class I, Group D Locations Class I, Group C Locations; Class II Group G Locations



Type XT

SERIES X (Rectangular)

A rectangular explosion-proof fitting. It has a flat cast cover held on by four machine screws.

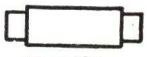
Furnished with any number of standard hubs from one to five. Made for ½-inch and ¾-inch conduit. Also 1-inch in C, LB and T types.

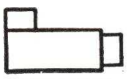
Hub arrangements shown in listing below are regularly carried in stock. Variations of these hub arrangements can be supplied on order.

Shipping weight: 2 hubs 1¼ lbs.; 3 hubs 1⅜ lbs.; 4 hubs 1½ lbs.; 5 hubs 1⅝ lbs.

Special fittings supplied on order.

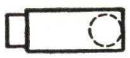
Cat. No.	Size	Price Each
XC-1	½	$1.76
XC-2	¾	2.88
XC-3	1	4.32

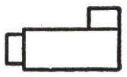

Type XC


Type XLL

Cat. No.	Size	Price Each
XLL-1	½	$1.76
XLL-2	¾	2.88

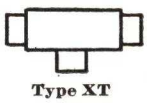
Cat. No.	Size	Price Each
XLB-1	½	$1.76
XLB-2	¾	2.88
XLB-3	1	4.32

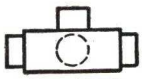

Type XLB


Type XLR

Cat. No.	Size	Price Each
XLR-1	½	$1.72
XLR-2	¾	2.88

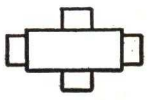
Cat. No.	Size	Price Each
XT-1	½	$1.88
XT-2	¾	3.08
XT-3	1	5.04

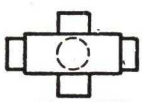

Type XT


Type XTA

Cat. No.	Size	Price Each
XTA-1	½	$2.18
XTA-2	¾	3.28

Cat. No.	Size	Price Each
XX-1	½	$2.18
XX-2	¾	3.28


Type XX


Type XXA

Cat. No.	Size	Price Each
XXA-1	½	$3.24
XXA-2	¾	3.88

KILLARK EXPLOSION-PROOF FITTINGS
FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations Class I, Group C Locations; Class II Group G Locations

CLOSE COUPLED ELBOWS

One Hub Male — One Hub Female



Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
		90° Elbows		
MF-90	½	7/16	34	$50.00
MF-90-2	¾	⅝	50	70.00
		45° Elbows		
MF-45	½	7/16	34	40.00
MF-45-2	¾	⅝	50	50.00

CLOSE COUPLED ELBOWS

Both Hubs Female



Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
		90° Elbows		
FF-90	½	7/16	34	$42.00
FF-90-2	¾	⅝	50	60.00
		45° Elbows		
FF-45	½	7/16	34	40.00
FF-45-2	¾	⅝	50	50.00



90 DEGREE ELBOW

Close coupled, both hubs male.

Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
MM-90	½	7/16	34	$50.00

90° MEDIUM SWEEP ELBOW

One hub male, one hub female.



Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
BL-1	½	1	28	$62.00
BL-2	¾	1½	43	90.00
BL-3	1	1¾	100	130.00
BL-4	1¼	2	130	170.00



90° MEDIUM SWEEP ELBOW
With Flange

One hub male, one hub female. Made in 1-inch size only.

Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
BLF-3	1	1¾	100	$130.00

UNIONS



UF-Female



UM-Female—Male

Meet with latest Underwriters' requirements.

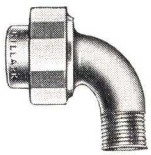
Cat. No.	Hubs Female		Price Each
UF- 1	½	½	$1.00
UF- 2	¾	¾	1.30
UF-12	½	¾	1.00
UF- 3	1	1	1.90
UF- 4	1¼	1¼	3.80
UF- 5	1½	1½	4.60

Cat. No.	Hubs Female	Hubs Male	Price Each
UM- 1	½	½	$1.00
UM- 2	¾	¾	1.30
UM- 3	1	1	1.90
UM-12	½	¾	1.00
UM-21	¾	½	1.30
UM- 4	1¼	1¼	3.80
UM- 5	1½	1½	4.60

KILLARK EXPLOSION-PROOF FITTINGS
FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations Class I, Group C Locations; Class II Group G Locations

90° ANGLE UNION CONNECTOR

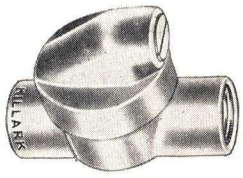


Hubs Female	Hubs Male	Wt. Per 100	Cat. No.	Price Each
½	½	100	UML-1	$2.40
¾	¾	100	UML-2	2.80
½	¾	110	UML-12	2.80
¼	½	110	UML-21	2.80

SEALING COMPOUND FITTINGS



Type EY
For Use Only in Vertical Position



Type EYS
For Use in either Vertical or Horizontal Position

Sealing Compound fittings are used to prevent the spread of an explosion from one fitting to another through the conduit. These fittings are supplied with a sealing compound in the form of a powder, which hardens when water is added.

Cat. No.	Conduit Size	Overall Length	Overall Width	Wt. Lbs. Per 100	Price With Compound
EY-1	½	2½	2⅛	50	$1.30
EY-2	¾	2½	2¼	75	1.60
EY-3	1	4 5/16	3 5/32	125	2.10
EY-4	1¼	5 1/16	3 31/32	150	2.60
EY-5	1½	5½	4 17/32	175	3.90
EYS-1	½	3¼	1 15/16	100	2.10
EYS-2	¾	3¼	1 15/16	125	2.60
EYS-3	1	4⅛	2 5/16	225	3.70

90° SEALING ELBOW



A combination of capped elbow and sealing fitting. Has male and female hubs.

Cat. No.	Conduit Size	Wt. Lbs. Per 100	Price Each
EYMF-1	½	38	$1.00
EYMF-2	¾	50	1.30

TYPE SC SEALING COMPOUND

Cat. No.	Description	Price Each
SC-2-Oz.	2-oz. Container	$0.50
SC-8-Oz.	8-oz. Container	.80
SC-1-LB.	1-lb. Container	1.30
SC-10-Lb.	10-lb. Container	9.00



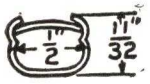
ADAPTERS



Cat. No.	Size Male	Size Female	Wt. Lbs. Per 100	Price Each
ADUP-12	½	¾	40	$0.50
ADUP-23	¾	1	50	.50

WIREMOLD RACEWAY AND FITTINGS

NO. 200 WIREMOLD RACEWAY



WIRE CAPACITY

Single Conductor: Type R or RH—2 No. 12; 3 No. 14; 4 No. 16; 4 No. 18. Type T or RU—3 No. 12; 3 No. 14; 6 No. 16; 8 No. 18.

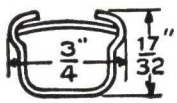
.025-inch steel, standard Wiremold finish. Furnished in 5-ft. lengths with coupling. Packed 100 feet to carton. Weight per 1000 feet, 169 pounds (5 ft. lengths).

No. **200** Wiremold .....per foot **$ .128**
No. **200-F** Flexible Fitting (18-in.) per 100 **187.50**

NO. 200 WIREMOLD FITTINGS

Installation Fittings	Cat. No.	Std. Pkg.	Unit Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
201			**Coupling**		
	201	100	10	½	**$2.40**
202	1½ inches long.				
			Bushing		
203	**202**	200	50	½	**2.70**
			Supporting Clip		
	203	200	10	½	**3.00**
205	2½ inches long.				
			One Hole Strap		
206	**205**	200	50	1	**2.00**
			Connection Cover		
211	**206**	50	10	¼	**2.00**
			90° Flat Elbow		
	211	50	5	2¼	**23.50**
211 LH	Legs 1¼ inches long.				
			Internal Twisted Elbow		
			(For 90° Twist with 90° Turn)		
	211-LH	20	5	1½	**50.30**
211 RH	Legs 2 inches long.				
			Internal Twisted Elbow		
			(For 90° Twist with 90° Turn)		
214	**211-RH**	20	5	1½	**50.30**
	Legs 2 inches long.				
			Pull Box		
	214	20	5	1½	**25.90**
217	5 inches long.				
			Adjustable Internal Elbow		
	217	50	5	5½	**29.00**
	Legs 3 inches long.				
			External Elbow		
218	**218**	50	5	2¼	**25.20**
	Legs ⅞ inches long.				
			Adjustable Junction Box		
228	**228**	20	5	2⅛	**57.20**
	2½"L.—¾"W.—⅞"D.				
			S.P. Switch with Box		
			10A., 125V.; 5A., 250V.		
240	**240**	40	1	11½	**146.40**
	3¼"L.—1⅝"W.—$\frac{31}{32}$"D.				
			Utility Box		
242	**242**	20	1	3¼	**71.70**
	3¼"L.—1⅝"W —⅞"D.				
			Duplex Receptacle		
243			**15A., 125V.; 10A., 250V.**		
	243	40	1	9	**109.70**
	3¼"L.—1⅝"W.—⅞"D.				
			Extension Adapter		
251	**251**	20	1	5½	**79.30**
	4¾"L.—3"W.—½"D.				
			Reducing Connector		
289	**289**	10	5	½	**22.90**
			Adapter		
289 A	**289-A**	40	10	½	**3.30**

NO. 500 WIREMOLD RACEWAY



WIRE CAPACITY

Single Conductor: Type R or RH—2 No. 10; 3 No. 12; 4 No. 14; 6 No. 16; 6 No. 18. Type T or RU—2 No. 8; 4 No. 10; 6 No. 12; 6 No. 14; 10 No. 16; 10 No. 18.

.040-inch steel. Standard Wiremold finish. Furnished in 10-ft. lengths with coupling. Packed 100 feet to carton. Weight per 1000 feet, 329 pounds.

No. **500** Wiremold .....per foot **$ .15**

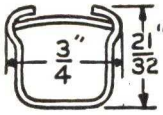
NO. 500 WIREMOLD FITTINGS

Installation Fittings	Cat. No.	Std. Pkg.	Unit Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
502			**Bushing**		
	502	200	50	½	**$3.00**
504			**One or Two Hole Strap**		
	504	200	50	4	**1.90**
506			**Connection Cover**		
	506	200	50	1¾	**1.90**
511			**90° Flat Elbow**		
	511	100	5	14½	**24.50**
512	Legs 2 inches long.				
			45° Flat Elbow		
515	**512**	20	5	1½	**28.20**
	Legs ⅞ inches long.				
			Tee		
	515	50	5	8¼	**36.50**
	3¾"L.—2"W.—¾"D.				
517			**Adjustable Internal Elbow**		
	517	100	5	19	**28.10**
	Legs 2⅛ inches long. One leg scored.				
518			**Adjustable External Elbow**		
	518	100	5	14	**26.50**
	Legs 2⅛ inches long. One leg scored.				
519			**Corner Box**		
	519	20	5	4¼	**67.90**
	3½"L.—1½"W.—1$\frac{5}{8}$"D.				
			Keyless Receptacle		
			660 Watt, 250 Volt		
526	**526**	40	1	15	**100.70**
	2½" dia., 1¾" deep.				
			Plug Receptacle		
			15A., 125V.; 10A., 250V.		
527	**527**	40	5	13½	**136.60**
	2½" dia., 1¼" deep.				
			Open Work Coupling		
588	**588**	20	5	3¼	**52.70**
	2⅞"L.—1½"W.—⅞"D.				
599			**Connector**		
			(For Metal Moulding Fittings)		
	599	20	5	1	**6.10**

600 Bender (for Nos. 200-500-700) ea. **$ 6.10**
600M Bender Adapter (furnished on request for each No. 600 bender in use).
610 Mitre Box .....each **10.00**
611 Mitre Box Guide Fingers....per 100 **83.90**
Wiremold Enamel, 1-pint cans.....per 100 **124.70**

WIREMOLD RACEWAY AND FITTINGS

No. 700 WIREMOLD RACEWAY



WIRE CAPACITY

Single Conductor: Type R or RH-2 No. 8; 3 No. 10; 4 No. 12; 5 No. 14; 10 No. 16; 10 No. 18. Type T or RU—3 No. 8; 6 No. 10; 8 No. 12; 8 No. 14; 16 No. 16; 18 No. 18.

.040-inch steel, standard Wiremold finish. Furnished in 10-ft. lengths with coupling. Packed 100 feet to carton. Weight per 1000 feet, 360 pounds.

No. **700** Wiremold.....per foot **$ .169**

No. **5700-F** Flexible Fitting (18-in.) per 100 ..... **198.20**

No. 5700 AND 700 WIREMOLD FITTINGS

Installation Fittings	Cat. No.	Std. Pkg.	Unit Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
5701	**Coupling**				
	5701	200	50	3¾	**$3.00**
702	**Bushing**				
	702	200	50	¾	**3.30**
5703	**Supporting Clip**				
	5703	500	50	12¾	**3.30**
704	**One or Two Hole Strap**				
	704	400	100	12¾	**3.30**
706	**Connection Cover**				
	706	200	50	2	**2.30**
5708	**Fixture Hook**				
	5708	10	1	¾	**31.30**
5709	**Ground Clamp**				
	5709	20	5	3⅝	**14.60**
711	**90° Flat Elbow**				
	711	100	5	16½	**27.50**
5711 LH	**Internal Twisted Elbows** (For 90° Twist with 90° Turn)				
	5711-LH Legs 2½ inches long.	50	5	9½	**50.30**
5711 RH	**5711-RH** Legs 2½ inches long.	50	5	9½	**50.30**
5712	**45° Flat Elbow**				
	5712 Legs 1 inch long.	20	5	1¾	**37.40**
715	**Tee**				
	715 3¾"L.—2"W.—1"D.	50	5	9½	**41.20**
717	**Adjustable Internal Elbow**				
	717 Legs 2⅛ inches long. One leg scored.	100	5	21	**30.40**
5717 A	**Internal Pull Elbow**				
	5717-A Legs 5½ inches long.	10	1	4¼	**83.90**
718	**Adjustable External Elbow**				
	718 Legs 2⅛ inches long. One leg scored.	100	5	16	**28.10**

No. 5700 AND 700 WIREMOLD FITTINGS

Installation Fittings	Cat. No.	Std. Pkg.	Unit Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
5719	**Corner Box**				
	5719 2½"L.—2⅜"W.—2½"D.	20	5	8¼	**$77.10**
5719 A	**Corner Box**				
	5719-A 3⅜"L.—1¾"W.—1⅛"D.	20	5	5½	**67.00**
5720	**Narrow Outlet Boxes** No. 5720 with ⅛-inch Male Nipple				
	5720 3¾"L.—⅞"W.—1"D.	40	5	10¼	**80.00**
5720 A	**5720-A** 3¾"L.—⅞"W.—1"D.	20	5	4¾	**92.20**
5720 B	With ⅜-inch Male Nipple				
	5720-B 3¾"L.—⅞"W.—1"D.	50	5	10	**80.00**
5721	**Utility Box**				
	5721 3" dia., 1¼" deep.	40	5	13¼	**58.60**
5725	**Receptacle Base** 660W., 250V.				
	5725 3" dia., 1¼" deep.	20	5	8½	**134.20**
5726	**Keyless Receptacle** 660W., 250V.				
	5726 3" dia., 1¾" deep.	20	5	8½	**100.70**
5727	**Plug Receptacle** 15A., 125V.; 10A., 250V.				
	5727 3" dia., 1¼" deep.	40	5	16	**136.60**
5727 G	**Receptacle** 2-Wire, 3-Pole with Ground				
	5727-G	10	1	5¼	**301.90**
5727 P	**Receptacle** 3-Wire, Polarized without Ground				
	5727-P	10	1	5½	**301.90**
5727 R	**Radio Receptacle**				
	5727-R	10	1	4½	**244.90**
5728	**Utility Box**				
	5728 4¼"L.—1⅝"W.—1$\frac{3}{32}$"D.	10	1	4	**67.00**
5728 B	**S.P. Switch with Box** 10A., 125V.; 5A., 250V.				
	5728-B 4¼"L.—1⅝"W.—1$\frac{3}{32}$"D.	10	1	4¾	**160.90**
5730	**Connector Block***				
	5730	5	1	¼	**33.50**
5730 A	**Connector Block†**				
	5730-A	8	2	½	**67.00**
5731	**Blank Cover‡**				
	5731 2⅜" dia., ¼" deep.	50	5	3¾	**19.70**

*660W., 250V. For use with 5721, 5732, and 5733.

†660W., 250V. For use with 5720, 5720A, 5720B, and 5728.

‡For use with 5732 and 5733.

WIREMOLD RACEWAY AND FITTINGS

NO. 5700 AND 700 WIREMOLD FITTINGS

Installation Fittings	Cat. No.	Std. Pkg.	Unit Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
	Outlet Box				
5732	**5732** 2½" dia., 1" deep.	20	5	3½	**$67.00**
	Outlet Box				
5733	**5733** 3" dia., 1" deep.	20	5	6	**69.40**
	Blank Extension Box				
5734	**5734** 4¾" dia., 1 1/16" deep.	20	5	13⅛	**109.10**
	Utility Box				
5734 A	**5734-A** 4¾" dia., 1 1/16" deep.	20	5	13½	**105.20**
	Distribution Box				
5735	**5735** 4¾"L.—4¾"W.—1⅜"D.	20	1	17½	**148.60**
	Blank Cover				
5736	**5736** 4 1/16" dia., 1/16" deep. For Nos. 5735-5737A-38A-39-39A, 1035-39.	100	5	19½	**28.20**
	Extension Box				
5737 A	**5737-A** 5½" dia., 1" deep.	60	5	44½	**109.10**
	Fixture Box				
5738 A	**5738-A** 5½" dia., 1" deep.	60	5	49¾	**99.10**
	Grounding Box				
	5738-F For Fluorescent Fixtures. 8"L.—3⅛"W.—⅞"D.	4	1	2½	**77.00**
	Extension Box				
5739	**5739** 6⅜" dia., 1" deep.	40	5	43½	**122.00**
	Extension Box				
5739 A	**5739-A** 6⅜" dia., 1" deep.	40	5	41½	**141.00**
	S.P. Switch with Box 10A., 125V.; 5A., 250V.				
5740	**5740** 4 1/16"L.—2½"W.—1⅛"D.	40	1	21	**172.20**
	Switch and Receptacle Box				
5741	**5741** 4⅝"L.—2⅞"W.—1⅜"D.	4	1	2½	**114.40**
	Junction Box				
5742	**5742** 4 1/16"L.—2½"W.—1⅛"D.	20	5	8	**95.30**
	Adjustable Junction Box				
	5742-A 4 1/16"L.—2½"W.—1⅛"D.	20	5	8¼	**131.80**
	Duplex Receptacle and Box 15A., 125V.; 10A., 250V.				
5742 A	**5743** 4 1/16"L.—2½"W.—1⅛"D.	40	1	22	**148.60**
	Switch and Receptacle Boxes				
5743	**5744** 1 Gang—4⅝"L.—2⅞"W.—2¾"D.	20	1	19½	**163.20**
	5744-2 2 Gang—4⅝"L.—4¾"W.—2¾"D.	10	1	12½	**276.70**
	5744-3 3 Gang—4⅝"L.—6½"W.—2¾"D.	10	1	15¾	**327.00**
5744	**5744S** 1 Gang—4⅝"L.—2⅞"W.—2¼"D.	20	1	16	**137.20**
	5744S-2 2 Gang—4⅝"L.—4¾"W.—2¼"D.	10	1	11	**274.50**
	5744S-3 3 Gang—4⅝"L.—6½"W.—2¼"D.	10	1	12	**411.60**
5745	**Comb. Switch and Recept. Box** **5745** 4⅝"L.—2⅞"W.—1¾"D.	40	1	27	**119.00**

NO. 5700 AND 700 WIREMOLD FITTINGS

Installation Fittings	Cat. No.	Std. Pkg.	Unit Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
	Switch and Receptacle Boxes				
5747	**5747** 1 Gang—4⅝"L.—2⅞"W.—1⅜"D.	40	1	23	**$95.20**
	5747-2 2 Gang—4⅝"L.—4¾"W.—1⅜"D.	10	1	8½	**213.50**
	5747-3 3 Gang—4⅝"L.—6½"W.—1⅜"D.	10	1	10¼	**255.30**
5748	**5748** 1 Gang—4⅝"L.—2⅞"W.—1¾"D.	40	1	27	**106.00**
	5748-2 2 Gang—4⅝"L.—4¾"W.—1¾"D.	20	1	20	**221.80**
	5748-3 3 Gang—4⅝"L.—6½"W.—1¾"D.	10	1	12¼	**276.80**
5748 S	**Receptacle Box** **5748-S** 4⅝"L.—2⅞"W.—1 1/16"D.	40	1	19½	**92.20**
	Switch and Receptacle Box				
5749	**5749** 4⅝"L.—2⅞"W.—2 3/16"D.	4	1	2½	**176.20**
	Extension Adapters				
	5751 1 Gang—4⅝"L.—2⅞"W.—1 1/16"D.	40	1	17	**95.20**
5751 5752 5753	**5752** 2 Gang—4⅝"L.—4¾"W.—1 5/16"D.	10	1	6	**240.90**
	5753 3 Gang—4⅝"L.—6½"W.—1 5/16"D.	2	1	1½	**288.70**
	Blank Extension Box				
5760	**5760** 4⅝"L.—2⅞"W.—1 1/16"D.	4	1	2	**112.00**
	Special Nipple				
5780	**5780** (With ½" locknut.) ⅜" internal thread, ½" external thread.	10	5	½	**23.70**
	Box Connectors				
5781 5781 A	**5781** ½-inch male.)	100	5	5½	**36.50**
	5781-A (¾-inch male.)	20	5	2⅛	**54.20**
	Pipe Connectors				
5782 5782 A	**5782** (½-inch female.)	50	5	4½	**41.80**
	5782-A (¾-inch female.)	20	5	2¾	**58.70**
	Elbow Box Connector				
5783	**5783** 2⅛"L.—1¼"W. (½" male).	20	5	2½	**61.00**
	Elbow Pipe Coupling				
5784	**5784** 2⅛"L.—1¼"W. (½" female).	5	1	1	**61.00**
	Combination Connector				
5785	**5785** 2½"L.—1⅜"W.—1 5/16"D.	50	5	7⅛	**36.50**
	Adjustable Offset Connector				
5786	**5786** 2⅜"L.—1⅜"W.—2 1/16"D.	20	5	5½	**87.70**
	Kick Plate				
5787	**5787** 3"L.—1⅝"W.—1⅝"D.	10	1	3¾	**64.00**
	Open Work Coupling				
5788	**5788** 3"L.—2¼"W.—¾"D.	20	5	4¾	**59.40**
	Armored Cable Connectors				
5790	**5790** (Use on special approval only.)	50	5	2	**16.80**
5790 A	**5790-A**	50	5	3	**16.80**

600 Bender (for Nos. 200-500-700)....each **$ 6.10**

600M Bender Adapter (furnished on request for each No. 600 bender in use).

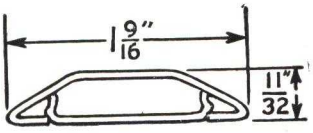
Wiremold Enamel, 1-pint cans.....per 100 **124.70**

WIREMOLD RACEWAY AND FITTINGS

No. 1500 PANCAKE WIREMOLD OVERFLOOR RACEWAY



.040-inch steel, galvanized. Furnished in 10-foot lengths without couplings. Packed 100 feet to carton. Weight per 100 feet, 49 pounds.

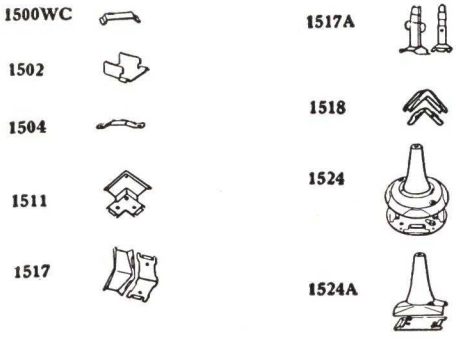


WIRE CAPACITY

Single Conductor: Type R or RH—4 No. 12; 4 No. 14; 6 No. 16; 8 No. 18. Type T or RU—4 No. 8; 4 No. 10; 6 No. 12; 8 No. 14; 10 No. 16; 14 No. 18.

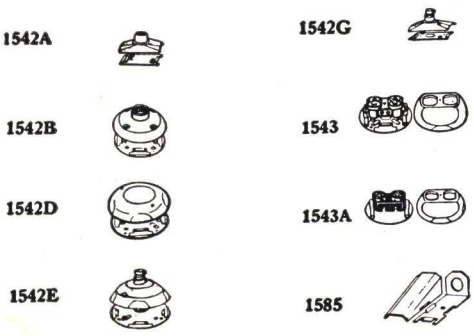
Price, No. **1500** Pancake Wiremold.....per ft. **$0.36**

No. 1500 PANCAKE RACEWAY FITTINGS



Cat. No.	Fittings	Std. Pkg.	Unit Pkg.	Std. Pkg. Wt.	Price Per 100
1500WC	Wire Clip	200	20	½	**$1.20**
1502	Bushing	40	10	½	**6.80**
1504	Two-hole Strap	10	1	¾	**12.00**
1511	90° Flat Elbow	20	1	4	**33.50**
1517	Internal Elbow Each leg 2½ inches.	20	5	4¾	**33.50**
1517A	Adapter Fittings With fibre bushing.	10	1	2	**51.80**
1518	External Elbow Each leg 2½ inches.	20	1	5	**40.30**
1524	Telephone Outlet 4 inches diameter, 3 3/32 inches high.	20	1	11½	**151.00**
1524A	Narrow Telephone Outlet 3¼" L., 1 3/32" W., 3⅝" H.	20	1	8	**134.20**

No. 1500 PANCAKE WIREMOLD FITTINGS

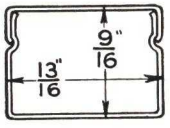


No. 1500 PANCAKE WIREMOLD FITTINGS

Cat. No.	Fittings	Std. Pkg.	Unit Pkg.	Pkg. Wt.	Price Per 100
1542A	Narrow Junction Box 3¼" L., 1 3/32" W., 1 5/16" Overall.	20	5	5	**$57.20**
1542B	Receptacle Base For Standard Floor Receptacle having ¾" Stem.	10	1	9½	**426.00**
1542D	Junction Box	20	5	7½	**67.00**
1542E	*Junction Box with ⅜" Squeeze Connector	20	1	7½	**83.90**
1542G	Narrow Junction Box with ⅜" Squeeze Connector	20	5	5	**94.50**
1543	Duplex Receptacle 15 Amp., 125 Volt—10 Amp., 250 Volt. 4 inches dia., 1½ inches deep.	20	1	14	**184.50**
1543A	Polarized Duplex Receptacle 3 Wire, 15 Amp., 125 Volt—10 Amp., 250 Volt. 4 inches dia., 1½ inches deep.	10	1	7½	**469.60**
1585	Combination Connector 3¾" L., 1 3/32" W., 1¾" D.	20	5	5	**40.40**

*For telephone use.

No. 1900 PLUGMOLD



WIRE CAPACITY

Single Conductor: Type R, RH, T, or RU with receptacles—3 No. 12; 3 No. 14. Type R, RH, T, or RU without receptacles—3 No. 12; 3 No. 14; 10 No. 16; 10 No. 18.

Has supporting screw knockouts at approximately 8-inch centers.

Base and cover of .025-inch steel, standard Wiremold finish. Furnished in 5-ft. lengths without couplings. Packed 100 ft. to carton. Weight per 100 ft.; Channel, 17 lbs.; cover, 10 lbs.

No. **1900B** Channel .....per ft. **$0.111**
No. **1900C** Cover .....per ft. **.083**

No. 1900 WIRED PLUGMOLD



No. 19306

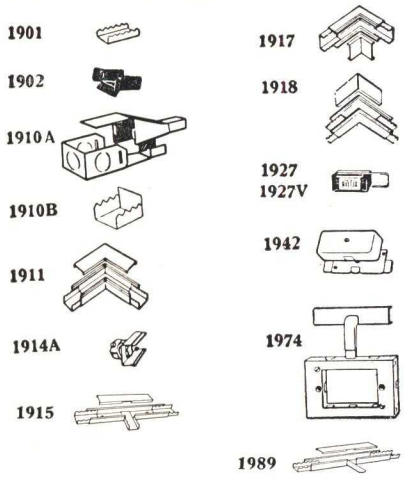


No. 19618

Cat. No.	Fittings	Std. Pkg.	Unit Pkg.	Pkg. Wt.	Price Per 100
19306	3-Foot Length, 6 Outlets, 6" on Centers	10	1	16	**$493.50**
19618	6-Foot Length, 4 Outlets, 18" on Centers	10	1	27	**525.00**

WIREMOLD RACEWAY AND FITTINGS

No. 1900 PLUGMOLD FITTINGS

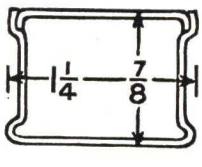


Cat. No.	Fittings	Std. Pkg.	Unit Pkg.	Pkg. Wt.	Price Per 100
1901	Coupling, 1½" long..	50	5	1	$6.10
1902	Fibre Bushing	200	50	½	3.30
1910A	End Fitting	20	5	3½	24.50
1910B	Blank End, ¾" long..	20	5	¾	12.20
1911	90° Flat Elbow.....	10	1	3	44.80
	Base each leg 3¼" long. Cover each leg 2" long.				
1914A	Connector	40	4	11½	44.80
	4" long has ½" Armored Cable Connector.				
1915	Tee	30	3	10	47.20
	Base 6" long, cover 4" long.				
1917	Internal Elbow	10	2	11½	47.20
	Base 1 leg 2⅛", 1 leg 3 5/16" L. Cover, legs 1" L.				
1918	External Elbow	10	1	3	47.20
	Base 1 leg 2⅛", 1 leg 3¼" L. Cover, legs 1½" L.				
1927	Receptacle (brown)..	50	5	2¾	51.80
1927V	Receptacle (ivory)....	50	5	2¾	70.10
1930	Connector Block	20	5	1¼	37.80
1942	Junction Box	20	1	3¼	58.00
1974	Take-off Connector ..	4	1	½	122.00
1989	Reducing Connector.. (1900 to 500)	4	1	1¾	63.70
1989A	Reducing Connector.. (1900 to 200)	4	1	1¾	63.70
200–19	Take-off Kit*	5	1	5	220.50

*Consists of one No. 251 Extension Adapter, a 15-inch length of No. 200 Wiremold, a No. 1989A Reducing Connector, and Wiring Harness of No. 12 Type R Conductors. Everything necessary to extend from existing wall outlet to No. 1900.

No. 2100 PLUGMOLD

WIRE CAPACITY



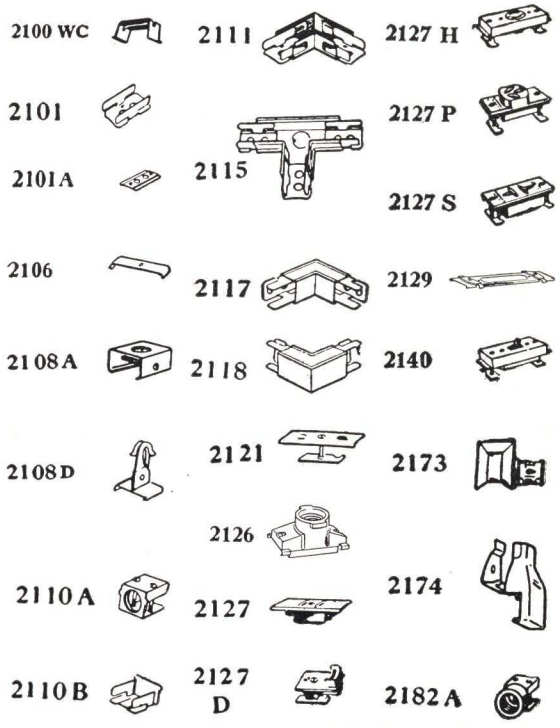
Single Conductor: Type R or RH—4 No. 6; 6 No. 8; 10 No. 10; 10 No. 12; 10 No. 14; 24 No. 16; 24 No. 18. With Devices in place—6 No. 12; 6 No. 14. Type T or RU—5 No. 6; 8 No. 8; 10 No. 10; 10 No. 12; 10 No. 14; 40 No. 16; 50 No. 18. With devices in place—6 No. 8; 8 No. 10; 10 No. 12; 10 No. 14.

No. 2100B Channel .040-inch steel, standard Wiremold finish. Furnished in 10-ft. lengths without couplings; packed 100 ft. to carton. Weight per 100 ft. 45 pounds.

No. 2100C Cover .040-inch steel, standard Wiremold finish. Furnished in lengths of 5 feet, scored every 3 inches. Packed 100 feet to carton. Weight per 100 feet, 20 pounds.

No. **2100B** Channel .....per ft. **$0.213**
No. **2100C** Cover .....per ft. **.152**

No. 2100 PLUGMOLD FITTINGS



Cat. No.	Fittings	Std. Pkg.	Unit Pkg.	Pkg. Wt.	Price Per 100
2100WC	Wire Clip	200	20	2	$3.00
2101	Coupling	20	5	2	7.70
2101A	Rigid Coupling	20	5	1	15.20
2106	Cover Clip	200	50	½	3.30
2108A	Hanger Clamp	5	1	½	36.50
2108D	Fixture Hook	4	1	½	27.50
2110A	End Connector ..... (½" Locknut)	20	5	3	31.30
2110B	Blank End Fitting..	20	5	2	14.60
2111	90° Flat Elbow.....	20	5	5	47.10
2115	Tee	4	1	1¾	117.40
2117	Internal Elbow	20	5	5	48.70
2118	External Elbow	20	5	5	54.10
2121	Telephone Outlet ..	20	5	1½	28.20
2126	Keyless Socket ..... 660W, 250V.	20	1	7	90.80
2127	Plug Receptacle .... (Brown) 15A, 125V; 10A, 250V.	40	1	4	57.80
2127V	Plug Receptacle .... (Ivory) 15A, 125V; 10A, 250V.	40	1	4	86.90
2127D	Lumiline Recept. .. Single, 660W, 250V.	20	2	1	67.00
2127H	Midget Twist-Lock Receptacle	20	1	4	169.00
2127P	3-W, Polarized Receptacle (Brown) ..... 15A, 125V; 10A, 250V.	20	1	3	120.40
2127S	T-Slot Receptacle (Brown) ..... 15A, 125V; 10A, 250V.	40	1	4¾	71.00
2129	Adapter (Conduit Type)	10	1	¾	29.10
2140	Single Pole Switch with Box	20	1	6	146.40
2173	Offset Connector .. (2100 to 1500)	10	1	1¼	40.30
2174	Takeoff Connector (2100 to 500 or 700)	10	1	2	53.40
2182A	End Fitting, ¾-in. Female Bushing	20	5	3½	83.90

NATIONAL ELECTRIC METAL MOLDING AND FITTINGS

333 METAL MOLDING



Neutral Gray finish—two pieces, base and capping. Packed 12 lengths, 8 ft. 4 in. long (100 ft.) in sealed corrugated carton. 3 fibre Wiring Retaining Clips with each length.

Capacity, Single Conductor: Type R or RH—2 No. 8; 3 No. 10; 6 No. 12; 7 No. 14. Type T or TW and RU—2 No. 6; 3 No. 8; 6 No. 10; 8 No. 12; 9 No. 14. Annunciator—25 wires, Telephone—Twisted Pair, 8; Cable up to 11/32 inch diameter.

Handbook of instructions for installation will be sent on request.

Listed and approved by the Underwriters' Laboratories, Inc.

Two-Piece

For two to four wires, 1 inch wide, 7/16-inch high, 8 feet 4 inches long. Neutral gray finish.

Cat. No.	Unit Pkg., Feet	Std. Pkg., Feet	Wt.,Lbs., Std.Pkg.
333	100	1000	410

FITTINGS FOR 333 METAL MOLDING



Take-Off Tee

For branch molding runs. Tee base slips under molding base. Capacity: Up to two No. 10 or No. 14 splices. U.S. Pat. No. 1,936,081.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
319	5	50	15

Combination Twist Elbow or Tee

To take 333 Molding from wall to ceiling with provision for use as either a left or right ell for tee through-runs.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
325	5	20	22



90° Flat Tee

Push-fit base. Capacity: Up to four No. 12 splices.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
335	5	50	15

90° Flat Elbow

Push-fit base.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
336	10	100	11

NATIONAL ELECTRIC METAL MOLDING FITTINGS

FITTINGS FOR 333 METAL MOLDING



90° External Elbow

Push-fit base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
337	10	100	8

90° Internal Elbow

Push-fit base.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
338	10	100	9



45° Flat Elbow

Push-fit base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
437	5	20	4

337-B Cap

For External Elbow No. 337.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
337-B	30	60	3

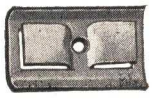


338-B Cap

For Internal Elbow No. 338.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
338-B	30	60	3

Coupling



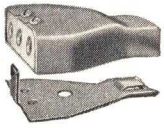
Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
344-X	50	200	11



Joint Cap

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
323	50	200	4

Open Work Coupling



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
369-X	5	20	4



Ground Clamp

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
355	5	20	4

NATIONAL ELECTRIC METAL MOLDING FITTINGS

FITTINGS FOR 333 METAL MOLDING



½-Inch Conduit to Molding Adapter

For ½-inch conduit to molding devices and elbows, tees, etc.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
315	5	50	3



90° ½-Inch Conduit Coupling

Molding to ½-inch conduit.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
316	5	20	5



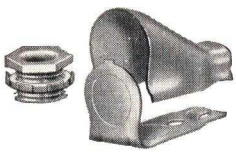
90° ½-Inch Angle Box Connector

Molding to ½-inch conduit KO or ½-inch conduit coupling.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
317	5	20	4

Combination Connector

½inch conduit KO in end and bottom, furnished with Chase nipple and ½-inch locknut.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
406	5	50	11



½-Inch Straight Box Connector

Molding to ½-inch conduit KO, or to ½-inch conduit coupling. U.S. Patent No. 1,776,652.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
2180	10	100	14

Single-Strap

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
345	50	500	7





Single-Strap

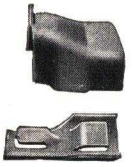
With base, base-plate-type.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
434	50	500	11

Adapter

To take Metal Molding into Wiremold boxes and devices.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Stfl. Pkg.
303	10	100	4



NATIONAL ELECTRIC METAL MOLDING FITTINGS

333 METAL MOLDING TOOLS

Bending Tool

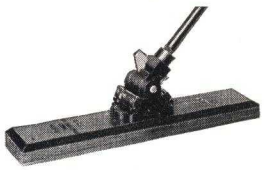


For 333 Molding

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
322	1	1	2½

Molding Shear

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs. Std.Pkg.
422-X	1	1	11



Cutting and Notching Gauge



For 333 Molding, Miter gauge which assures close- and neat-fitting joints and corners.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
423	1	1	2

333 METAL MOLDING JUNCTION BOXES

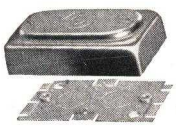
Corner Box

Double twistouts on each side and one at each end. KO for ½-inch conduit in each arm of base.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
376	5	20	21

Utility Box

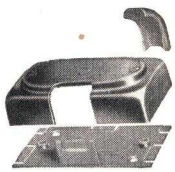


With combination ½-inch conduit KO, and drop-cord eyelet. Four twistouts for Molding or Xtensionduct.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
352	5	20	7

Baseboard Junction Box

For branch from top to face of baseboard. Similar to 352 but provided with opening for 333 and elbow cap.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
352-F	5	20	9

333 METAL MOLDING STANDARD DEVICES



Duplex Receptacle with Parallel Slots

Consists of parallel slot duplex receptacle and steel housing for surface-mounting. Four twistouts for Molding or Xtensionduct.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
350	1	20	9

Duplex Receptacle with T-Slots

Consists of T-slot duplex receptacle and steel housing for surface-mounting. Four twistouts for molding or Xtensionduct.

Cat. No.	Description	Unit Pkg.	Std. Pkg.	Wt. Lbs., Std. Pkg.
350-T	Duplex Receptacle	1	20	9

NATIONAL ELECTRIC METAL MOLDING AND FITTINGS

333 METAL MOLDING STANDARD DEVICES



Single-Pole Toggle-Switch

Consists of toggle-switch and steel housing for surface-mounting. Four twistouts for Molding or Xtensionduct.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
351	1	20	8

2½-Inch Drop-Cord Rosette

Push-fit base; four double twistouts. Assembled with terminal block.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
348	5	50	15



3-Inch Drop-Cord Rosette

Push-fit base; four double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
348-X	5	50	19

2½-Inch T-Slot Receptacle

660-watt. Push-fit base; two double twist-outs.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
360	5	50	18

333 METAL MOLDING SPECIAL DEVICE



2½-Inch Keyless Receptacle

Slips over molding base, secured by set-screw. Bakelite liner for high-wattage lamps up to 600 watts. Threaded for Uno shade-holder. US. Patent No. 2,037,368.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
357	5	50	19

333 METAL MOLDING DEVICE BOXES

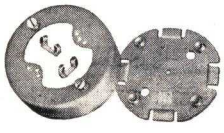
2½-Inch Blank Cover

With combination ½-inch conduit KO and drop-cord eyelet. For use with 342 or 343 boxes.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
339-X	5	50	8

Device Boxes



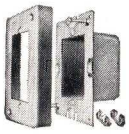
½-inch conduit KO in bottom. Two No. 6-32x⅞-inch screws furnished for mounting sockets, switches, or other devices. Four double twistouts.

Cat. No.	Amp.	Size In.	Depth In.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
342	10	3	1	5	50	16
343	5	2½	⅝	5	50	16

NATIONAL ELECTRIC METAL MOLDING AND FITTINGS

333 METAL MOLDING DEVICE BOXES

One-Gang Semi-Flush Switch and Receptacle Box



For flush devices. Has wall case without KOs. 1⅝ inches deep. Surface box 4⅞x3⅛; ¾ inches deep, with four double twistouts; total depth 2⅜ inches.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
438	1	20	9

One-Gang Surface Switch and Receptacle Box



1¾ inches deep for flush switches and receptacles. 4⅞x3⅛ inches with four double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
439	1	20	8

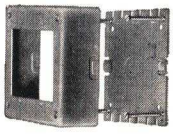
One-Gang Surface Switch and Receptacle Boxes



For flush switches and receptacle; 4⅞x3⅛ inches with four double twistouts.

Cat. No.	Depth In.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
439-D	1⅜	1	20	7
439-X	1	1	20	7

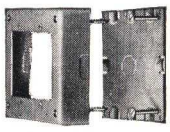
Two-Gang Surface Switch and Receptacle Box



1¾ inches deep for flush switches and receptacles; 4⅞x5 inches with eight double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
***440**	1	10	11

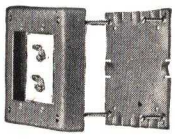
Two-Gang Surface Switch and Receptacle Box



1⅜ inches deep for flush switches and receptacles; 4⅞x5 inches with eight double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
***440-D**	1	10	10

Two-Gang Surface Switch and Receptacle Box



1 inch deep for flush switches and receptacles; 4⅞x5 inches with eight double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
***440-X**	1	10	9

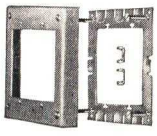
One-Gang Switch and Receptacle Box Adapter



4⅞x3⅛x¾ inches deep, with four double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
441	1	20	5

Two-Gang Switch and Receptacle Box Adapter



4⅞x5x¾ inches deep, with eight double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
***442**	1	10	7

*Can be furnished up to 6-gang.

NATIONAL ELECTRIC METAL MOLDING AND FITTINGS

333 METAL MOLDING CANOPY BASES



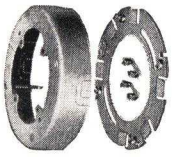
4¾-Inch Split Canopy Base Plate and Closed Cover

Combination ½-inch conduit KO and drop-cord eyelet. Six double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
361	5	20	35

4¾-Inch Split Canopy Base Plate and Cover

Two pairs 8-32 tapped holes on 3¼-inch and 4-inch centers for standard outlet box covers or devices. Six double twistouts.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
362	5	50	30



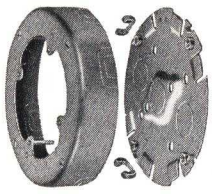
6½-Inch Split Canopy Base Plate and Cover

Two pairs 8-32 tapped holes on 3¼-inch and 4-inch centers for standard outlet box covers or devices. Six double twistouts.

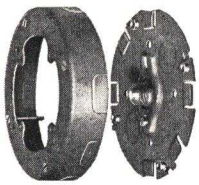
Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
367	5	20	23

4¾-Inch Canopy Base Plate and Cover

Two pairs 8-32 tapped holes on 3¼-inch and 4-inch centers. For standard outlet box covers or devices. Five ½-inch conduit KOs in plate. Six double twistouts.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
365	5	50	36



Canopy Base Plate and Cover

Same as 365 but with ⅜-inch male fixture stud on plate.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
365-A	5	50	37

6½-Inch Canopy Base Plate and Cover

Two pairs 8-32 tapped holes on 3¼-inch and 4-inch centers for standard outlet box covers, and devices. Five ½-inch KOs. Six double twistouts.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
366	5	20	25



4-Inch Blank Cover

With combination ½-inch conduit KO and drop-cord eyelet. For use with 362, 365, 365-A, 366, 367.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
365-X	5	50	10

NATIONAL ELECTRIC METAL MOLDING AND FITTINGS

333 METAL MOLDING AUXILIARY DEVICES



Terminal Block

For 348-X Drop-Cord Rosette.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
340-X	5	20	6

2½-Inch Fixture Rosette

With terminal block; combination bushing for ⅛- and ⅜-inch pipe; push-fit base. Four double twistouts.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
430	5	20	16



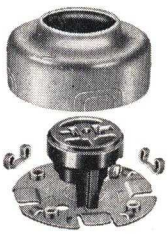
3-Inch Keyless Receptacle

Threaded for Uno shadeholder. 660-watt; push-fit base; four double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
356-X	5	50	22

3-Inch T-Slot Receptacle

660-watt. Push-fit base; four double twistouts.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
360-X	5	50	24



2½-Inch Receptacle Base

With terminal block for fluted shell sockets and devices; push-fit base, four double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
400	5	50	16

3-Inch Receptacle Base

With terminal block for fluted shell sockets and devices. Push-fit base, four double twistouts.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
400-X	5	50	21

NATIONAL ELECTRIC XTENSIONDUCT

111 XTENSIONDUCT



Neutral Gray finish—two-piece—base and capping. Packed 20 lengths, 5 ft. long in sealed corrugated container.

Capacity, Single Conductor: Type R or RH—2 No. 12; 3 No. 14. Type T or TW and RU—3 No. 12; 3 No. 14. Annunciator, 10; Telephone Twisted Pair, 4.

Listed and approved by Underwriters' Laboratories, Inc.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Per 100 Ft.
111	100 feet	1000 feet	16

XTENSIONDUCT FITTINGS

Coupling



For connecting base. Capping may overlap joint. (If coupling is not used the capping of Xtensionduct must overlap the joint in base to provide electrical continuity).

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
144	10	50	1

External Elbow Cap

For use at outside corners. 90 degrees.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
137	5	50	1½



Internal Elbow Cap

For use at outside corners. 90 degrees.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
138	5	50	1½

Flat Elbow

For use at left or right bends in Xtensionduct, 90 degrees. Supplied with base.



Cat. No	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
136	5	50	2



Baseboard Offset Elbow

For runs from face to top of baseboard. Supplied with base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
176	5	20	2

Cutting and Notching Gauge

Miter gauge which assures close- and neat-fitting joints and corners.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
122	1	1	1¼

NATIONAL ELECTRIC XTENSIONDUCT FITTINGS

XTENSIONDUCT FITTINGS

Low-Potential Fiber Bushing



Used where Xtensionduct is used without fittings for covering bell or signal wire.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
100	10	100	1

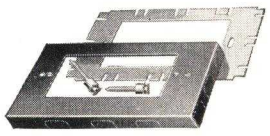
Adapter

Connects Xtensionduct to No. 333 metal molding fittings.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
113	10	50	3

Box-Extension Adapter

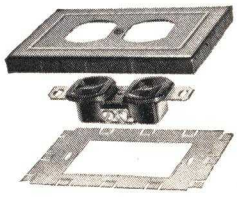


To accommodate extensions from outlets requiring other than standard convenience receptacles. This fitting may be used with any standard wiring device including P & S Despard Line.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
139	1	20	5

Box-Extension Device

To accommodate extensions from existing outlets. Includes plate and T-slot receptacle.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
141	1	20	10



Duplex Receptacle with Parallel Slots

Consists of parallel slot duplex receptacle and steel housing for surface-mounting. Four twistouts for Molding or Xtensionduct.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
350	1	20	9

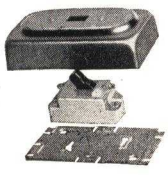
Duplex Receptacle with T-Slots

Consists of T-slot duplex receptacle and steel housing for surface-mounting. Four twistouts for molding or Xtensionduct.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
350-T	1	20	9

Single-Pole Toggle Switch

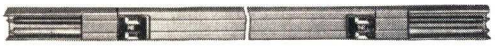
Consists of toggle-switch and steel housing for surface-mounting. Four twistouts for Molding or Xtensionduct.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
351	1	20	8

NATIONAL ELECTRIC "PLUG-IN" STRIP

TYPE CF-2 CONSTANT SERVICE

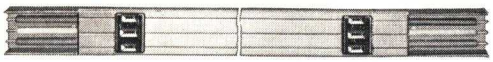


CF2-606-18



CF2-603-6—CF2-606-6

TYPE CF-3 SWITCH-CONTROLLED



One Receptacle—Two Services

With National Electric's newly developed type CF-3 switch-controlled "Plug-In" Strip you now have your choice of electrical service . . . switch control at wall switches or constant current . . . all in one receptacle.

National Electric 3-wire type CF-3 "Plug-In" Strip is the most versatile pre-wired Multi-Outlet Assembly on the market today. Truly designed for Modern Living . . . it provides a S-P-R-E-A-D of electrical outlets, every 18" around the room, to meet the demands of Adequate Wiring. Plus . . . dual service features in every outlet receptacle. Top and middle slots give switch control for lamps and other lighting arrangements. Bottom and middle receptacle slots provide constant current to clocks, radios and other appliances.

400% More Outlets—Cost No More Than Ordinary Wiring

Type CF-2, 2 wire constant service, and type CF-3, dual service, "Plug-In" Strip features Cut-In-The-Field installation and Crimp-on method of connection . . . for faster . . . safer . . . easier installations. Capping is locked-on in the factory and is tamper proof. Once installed, "Plug-In" Strip is a trouble free life time system. No screws or solder points to break loose. "Plug-In" Strip's baked enamel neutral satin gray finish may be repainted to blend with any interior wall surface.

National Electric "Plug-In" Strip comes in 6-ft. lengths with outlets every 18 inches. To meet the demand for outlets on close spacing for commercial and light manufacturing use or for over the kitchen food preparation areas type CF-2 "Plug-In" Strip units are available in 3-ft. and 6-ft. lengths with outlets on 6-inch spacings.

Easy, Simple Installation Means More Wiring Jobs

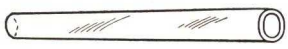
"Plug-In" Strip affords electricians and contractors an excellent opportunity to increase their wiring profits in new home construction, office and store rewiring as well as the modernization market in presently inadequately wired homes.

"Plug-In" Strip is wired with No. 12 AWG wire for 15 ampere, 125 volt or 10 ampere, 250 volt service. Furnished with 4 mounting clips and straps to facilitate either baseboard or chair rail height mounting.

Listed and approved by the Underwriters' Laboratories, Inc., the Canadian Standards Association, and complies with the regulations of the National Electrical Code.

Cat. No.	Length Feet	Plug-Ins Per Lgth.	Unit Pkg. Lgths.	Std. Pkg. Lgths.	Wt. Lbs. Std. Pkg.
CF2-606-18	6	4	1	10	26
CF2-603-6	3	5	1	10	15
CF2-606-6	6	11	1	10	26
CF2-615	6	0	1	10	23
CF3-606-18	6	4	1	10	35
CF3-615	6	0	1	10	27

NATIONAL ELECTRIC "PLUG-IN" STRIP



NE-600-1

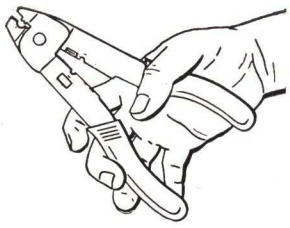


NE-600-2

Crimp Connector (right)—Especially processed tinned copper Barrell Connector that crimps into a solid conductor mass and allows no corrosion. Has No. 12 copper conductivity. Furnished with all "Plug-In" Strip fittings.

Insulator Tube (left)—Transparent binylite tubing with high dielectric properties. The tube is heavy in stock to withstand abuse. It fits the point of connection snugly and remains securely in place. Furnished with all Barrell Connectors.

NE-600 CRIMPING TOOL



NE Connector Tool. The approved tool for crimping a connector barrell to the "Plug-In" Strip conductors. This tool makes possible a complete and solid connection in less than ¼ the time of ordinary screw connection methods.

Has wire cutter and stripper for No. 12 and No. 14 solid wire.

CF-2 "PLUG-IN" STRIP FITTINGS

CF2-607 MOUNTING CLIP



Clips which fasten to the back of "Plug-in" Strip for mounting on top of baseboard. Clips furnished with every length of "Plug-in" Strip.

Cat. No.	Unit Pkg.	Std. Pkg.
CF2-607	50	100

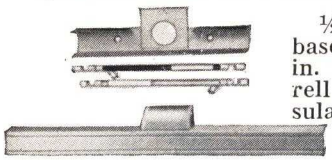
CF2-645 MOUNTING STRAP



For use when mounting "Plug-in" Strip on the surface. Mounting Straps furnished with every length of "Plug-in" Strip.

Cat. No.	Description	Unit Pkg.	Std. Pkg.
CF2-645	Mounting Strap	50	100

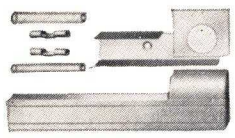
CF2-618 CENTER FEED JUNCTION BOX



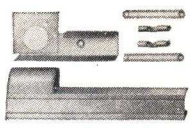
½-inch conduit K.O. in base. Overall length 11 in. Furnished with Barrell Connectors and Insulating Tubes and 2 jumpers for connecting to circuit.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-618	5	20	25

END FEED JUNCTION BOX



CF2-616-L

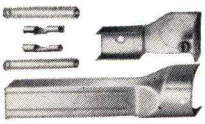


CF2-616-R

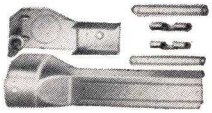
For bridging doorways, fireplaces, etc., or used as an end circuit feed. ½-inch conduit knockout in base. Furnished with Crimp Connectors and Insulating Tubes.

Cat. No.	Length Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-616-L	6⅜	5	20	15
CF2-616-R	6⅜	5	20	15

NATIONAL ELECTRIC "PLUG-IN" STRIP
90 DEGREE AND STRAIGHT END JUNCTION BOX



CF2-617-L



CF2-617-R

For use as surface mounted feed—particularly for commercial installations. ½-inch conduit knockouts on end and rear for connection of any tyne wiring. Furnished with Crimp Connectors and Insulating Tubes.

Cat. No.	Length Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100
CF2-617-L	5½	5	20	13
CF2-617-R	5½	5	20	13

CF2-629 DEVICE AND CONDUIT BOX COVER



For use as cover plate on Device and Outlet Box feed installations. Furnished with two splicing jumpers ready for crimp-on connection. Overall length, 12 inches.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-629	5	20	15

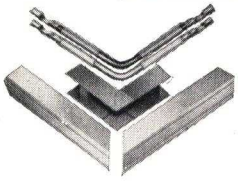
CF2-636 FLAT ELBOW

Two-piece capping elbow —over base. Each capping leg of elbow acts as a coupling cover to adjoining length of "Plug-in" Strip. With Crimp Connectors and Insulating tubes.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-636	5	20	19

CF2-637 EXTERIOR ELBOW

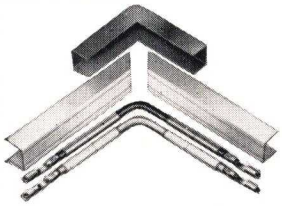


Two-piece capping Elbow —over base. Each capping leg of elbow acts as a coupling cover to adjoining length of "Plug-in" Strip. Furnished with 2 Crimp Connectors and Insulating Tubes. Overall length of elbow legs—5 ins.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-637	5	20	19

CF2-638 INTERIOR ELBOW

Two-piece capping elbow — over base. Each capping leg of elbow acts as a coupling cover to adjoining length of "Plug-in" Strip. Furnished with Crimp Connectors and Insulating Tubes. Overall length of elbow legs, 5¾ inches.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-638	5	20	21

CF2-644 COUPLING



Covers open ends of adjoining lengths of "Plug-in" Strip. Furnished with Crimp Connectors and Insulating Tubes — for connecting adjoining sections of "Plug-in" Strip.

Cat. No.	Length Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-644	5	10	20	8

NATIONAL ELECTRIC "PLUG-IN" STRIP
CF2-680 END BLANK AND WIRE NUTS

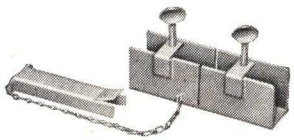


Covers cut-back opening at termination of "Plug-in" Strip runs. Furnished with two wire nuts for insulating conductor ends.

Cat. No.	Length Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-680	2½	5	20	4

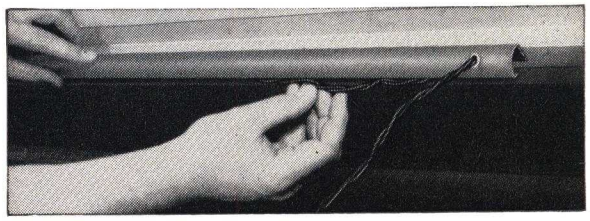
CF2-623 CUTTING GAUGE

For use in cutting back "Plug-in" Strip and capping to desired measurements. "Cut in the field" principle of installation.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-623	1	1	1

NATIONAL ELECTRIC "LOPO-TRIM"



Lopo-Trim Features the "No Fishing Principle" Just Tuck the Wires In.



Neutral Satin Gray Finish

Lopo-Trim is a hollow steel quarter round raceway used to carry low potentional wires such as telephone, inter-communication and buzzer on top of the baseboard.

Lopo-Trim has a neutral satin gray finish, matching "Plug-in" Strip, and harmonizes with all tones used in interior decoration. It can be quickly repainted to match baseboard, floor or walls.

Lopo-Trim fits neatly on top of any standard baseboard or on top of National Electric "Plug-in" Strip and held in place by projecting steel prongs. It is easily lifted to provide change of telephone placement or addition of wires.

Approved by telephone companies, Lopo-Trim can now be versatilely installed —

As a baseboard trim,

As a toe-plate where wall or baseboard meet,

As a low potential wiring raceway or chair-rail moulding,

As a quarter round trim above or beneath (or both) installations of National Electric "Plug-in" Strip.

Low potential wiring can be brought out of Lopo-Trim anywhere. Merely drill a hole through the rounded surface—insert a standard grommet and bring wires out. The 6-foot sections of Lopo-Trim match perfectly for continuous installation. Sections are cut to fit and corners mitered identically like wood quarter round.

Cat. No.	Lengths Feet	Standard Package	Wt. Lbs. Std. Pkg.
LT-606	6	17 6-ft. Lengths	20

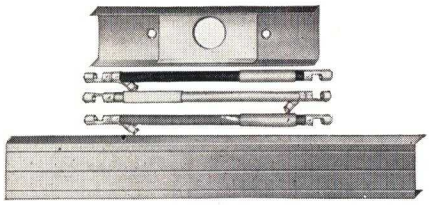
NATIONAL ELECTRIC "PLUG-IN" STRIP

TYPE CF-3 "PLUG-IN" STRIP

Features Simplicity of Fittings

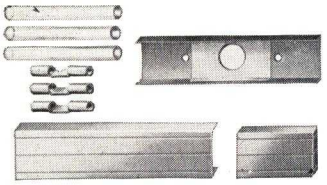
Installation of 3-Wire Switch Control "Plug-in" Strip is exactly the same as two-wire Strip . . . only one more conductor is crimped.

CF3-618 CENTER FEED JUNCTION BOX



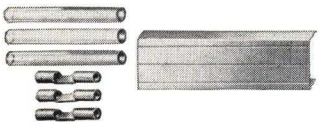
For connecting circuit wires to 3-wire "Plug-in" Strip. Furnished with 3 splicing jumpers ready for crimp-on connection. ½-inch conduit knock-out in base. Overall length 11 inches.

CF3-616 END FEED JUNCTION BOX



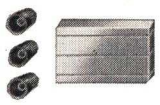
Reversible End Feed Junction Box accomodates circuit feed-ins on any end of 3-wire "Plug-in" Strip runs. Has ½-inch conduit knockout in base. Furnished with 3 Crimp Connectors and Insulator Tubes for crimp-on connection. Overall length 8½ inches.

CF3-644 COUPLING CAPPING



Covers open end of adjoining lengths of "Plug-in" Strip. Furnished with Crimp Connectors and Insulator Tubes. Overall length 5 inches.

CF3-680 END BLANK AND WIRE NUTS

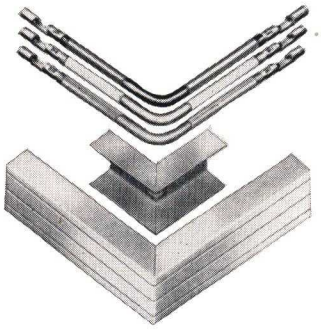


To cover cut-back opening at termination of "Plug-in" Strip runs. Furnished with three Wire Nuts for insulating conductor ends. Overall length 2½ inches.

NATIONAL ELECTRIC "PLUG-IN" STRIP

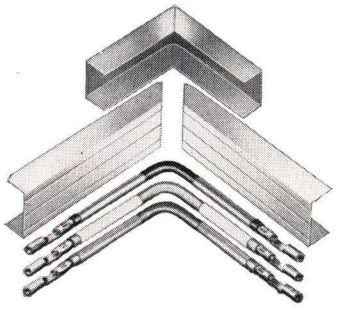
3-WIRE "PLUG-IN" STRIP ELBOWS

CF3-637 EXTERIOR ELBOW



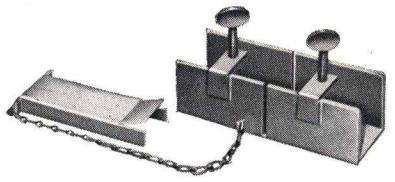
Elbow is one-piece capping over base. Capping leg of Elbow acts as Coupling Cover to adjoining length of "Plug-in" Strip. Elbows are furnished with three copper jumpers ready for crimp-on connection. Overall length of each leng—5 inches.

CF3-638 INTERIOR ELBOW



Elbow is two-piece capping over base. Capping leg of Elbow acts as Coupling Cover to adjoining length of "Plug-in" Strip. Elbow is furnished with three copper jumpers ready for crimp-on connection. Overall length of each leg—5 inches.

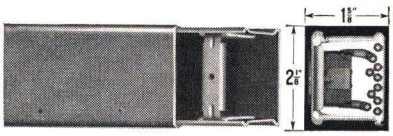
CF3-623 CUTTING GAUGE



For use in cutting back 3-wire "Plug-in" Strip and capping to desired measurements. See illustrated catalog No. 554 for "cut-in-the-field" principle of installation.

NATIONAL ELECTRIC 1700 SURFACEDUCT AND FITTINGS

SURFACEDUCT



Neutral Gray Finish—Two pieces, base and capping. Packed 5 lengths, 10 ft. long (50 ft.) in sealed corrugated container. Capping secured in place by bridges, 4 of which are furnished with each length. ½ and ¾-inch knockouts and mounting holes in base.

Single Conductor

	No. 6	No. 8	No. 10	No. 12	No. 14
Capacity without devices....	6	10	10	10	10
Capacity with devices.....	4	5	10	10	10

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1700	10 ft.	50 ft.	53

1700 SURFACEDUCT FITTINGS



Bushing

Used on ends of Surfaceduct in 1739 and 1740 boxes.

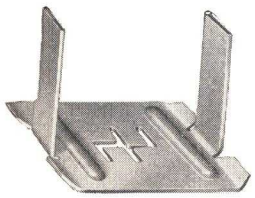
Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1719	2	10	1

Bridge

For securing capping, mounting devices and as a wire retainer. Furnished with Surfaceduct and all fittings. Extra bridges should be purchased for short lengths of duct.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1731	10	50	2

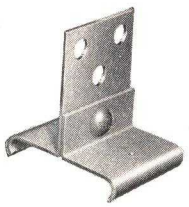


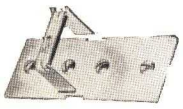
Coupling

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1744	5	20	1

Hanger

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1790	2	10	2





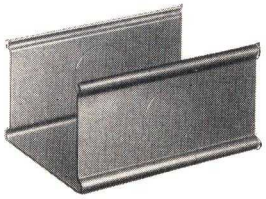
Rigid Coupling

For suspension installations. Furnished with 1731 Bridge, 4 bolts, nuts and lock washers.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
1744-X	10	50	25

Side Feed or with 1780 as an End Box

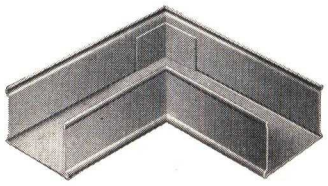
Use 1744 Coupling to connect.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1728	1	10	3

NATIONAL ELECTRIC 1700 SURFACEDUCT AND FITTINGS

1700 SURFACEDUCT FITTINGS



90 Degree Flat Elbow

Use 1744 Coupling to connect.

Cat. No.	Unit Pkg.	Std. Pkg.
1736	1	10

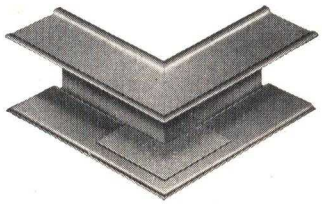
Package weight 8 lbs.

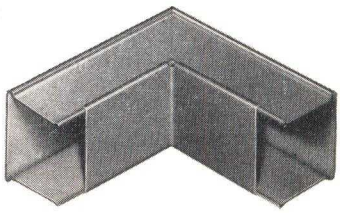
External Elbow

Use 1744 Coupling to connect.

Cat. No.	Unit Pkg.	Std. Pkg.
1737	1	10

Package weight, 8 lbs.





Internal Elbow

Use 1744 Coupling to connect.

Cat. No.	Unit Pkg.	Std. Pkg.
1738	1	10

Package weight, 12 lbs.

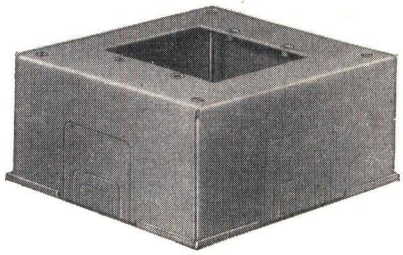
End Blank

End Blank or with 1728 as an End Box.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1780	2	10	4



1700 SURFACEDUCT DEVICE BOX



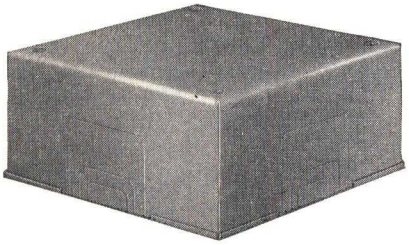
Box 6 inches square, 2¾ inches deep. Twistouts for 1700 Surfaceduct and 888 and 333 Metal Molding. 2-gang opening in cover for Standard 30, 50 and 60 amp. receptacles.

For use with devices: Bryant 3845, 7112; Hubbell 7386; H. & H. 4515, 4520, 4523, 7935, 7987; P. & S. 3845.

Cat. No.	Description	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1740	Also used with E.M.T., Rigid and Flexible Conduit.....	1	10	30

NATIONAL ELECTRIC 1700 SURFACEDUCT AND FITTINGS

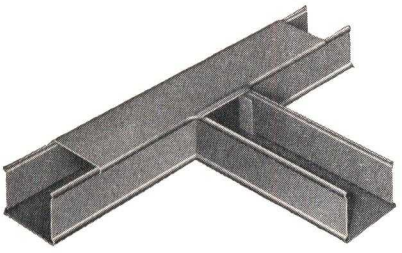
JUNCTION BOX



Box 6 inches square, 2¾ inches deep. Twistouts for 1700 Surfaceduct and 888 and 333 Metal Molding.

Cat. No.	Description	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1739	Also used with E.M.T., Rigid and Flexible Conduit.....	1	10	30

COMBINATION TEE AND OFFSET SERVICE FITTING



For use as a Tee and as a method of installing devices in an offset position.

Cat. No.	Description	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1735	Takes all Device Covers	1	10	15

1700 SURFACEDUCT ADAPTERS

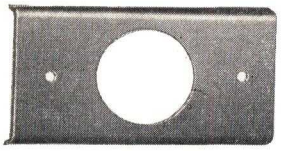


Conduit Adapter

With 1½ in. conduit threaded hub. Takes rigid conduit into 1739 and 1740 Surfaceduct twistouts.

Cat. No.	Description	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1715	Conduit Adapter	1	10	10

SINGLE RECEPTACLE COVER



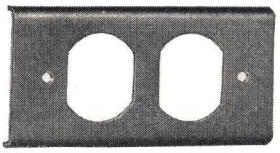
No. 1701

Furnished with 2 bridges and screws.

Unit package 1; standard package 10; weight 4 lbs.

NATIONAL ELECTRIC 1700 SURFACEDUCT DEVICE COVERS

DOUBLE RECEPTACLE COVER



No. 1702

Furnished with 2 bridges and screws.

Unit package 1; standard package 10; weight 4 lbs.

TOGGLE SWITCH COVER

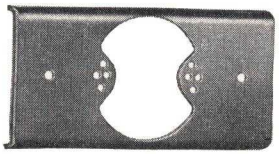


No. 1703

Furnished with 2 bridges and screws.

Unit package 1; standard package 10; weight 4 lbs.

SURFACE DEVICE COVER

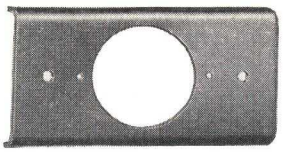


No. 1704

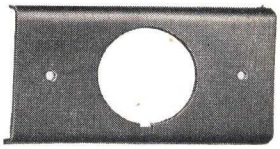
Furnished with 2 bridges and screws.

Unit package 1; standard package 10; weight 4 lbs.

SIGN RECEPTACLE COVERS



No. 1705

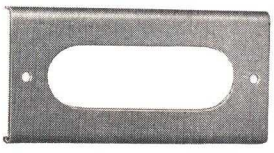


No. 1706

Furnished with 2 bridges and screws.

Unit package 1; standard package 10; weight 4 lbs.

CONDULET DEVICE COVER



Will take all obround condulet devices.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1707	1	10	4

FIXTURE AND DROP CORD COVER

Has combination 1½-inch knockouts and drop cord eyelet.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.Lbs., Std.Pkg.
1708	1	10	4½

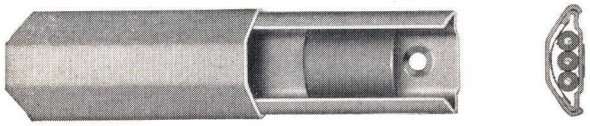


NATIONAL ELECTRIC FLORDUCT

Florduct consists of two pieces, base and capping so formed as to "snap" together—the capping snapping over the base. The capping is a ramp-like plate offering the minimum of obstruction. Florduct makes practical surface floor wiring across aisles and will stand the abuse of hand-trucks and office traffic.

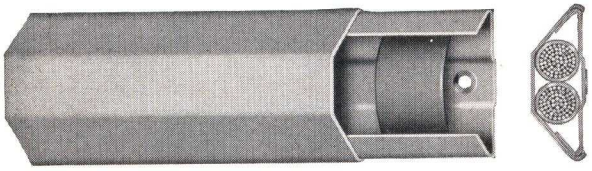
Neutral gray finish.

Approved by Underwriters' Laboratories, Inc.



NO. 711-A

Capacity, Single Conductor: Type R and RH—4 No. 12; 7 No. 14; 6 No. 16; 8 No. 18. Type T or TW and RU—3 No. 8; 4 No. 10; 5 No. 12; 9 No. 14. Annunciator: 20. Telephone: 4 Twisted Pair.



NO. 733-A

Capacity, Single Conductor: Type R and RH—4 No. 6; 7 No. 8; 10 No. 10; 10 No. 12; 10 No. 14; 20 No. 16; 24 No. 18. Type T or TW and RU—6 No. 6; 10 No. 8; 10 No. 10; 10 No. 12; 10 No. 14. Annunciator: 50. Telephone, 8 Twisted Pair; Cable up to 26 pair.

Cat. No.	Unit Pkg. Feet	Std. Pkg. Feet	Wt.,Lbs., Std.Pkg.
711-A	5	100	38
733-A	5	100	78

FITTINGS FOR 711-A AND 733-A FLORDUCT



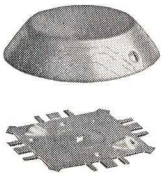
Internal Adapter Elbow

This small Internal Adapter Elbow is for use with 711-A Florduct only. For making bends from Florduct on floor to open wiring or 333 Metal Molding on baseboard. Furnished with fibre bushing to be used with open wiring.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs., Std. Pkg.
738-B	5	20	3

Outlet Extension Cap

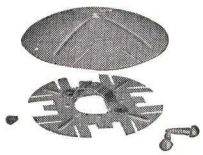
For 711-A or 733-A Florduct. Used as junction fitting between Florduct and the outlet from which extension is made. Arranged for mounting on wood floor. Also may be used as a flat elbow or junction of Florduct.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
766-BA	10	20	4

NATIONAL ELECTRIC FLORDUCT

FITTINGS FOR 711-A AND 733-A FLORDUCT



Outlet Extension Cap

For use with 711-A Florduct only. Used as junction fitting between Florduct and the outlet from which extension is made. Arranged for mounting on wood floor.

May be used as flat elbow or junction of Florduct runs.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
765-A	5	20	5½

Adapters



No. 702 Adapter for connecting and fastening No. 765-A Extension Cap to ½-inch threaded outlet on floor box.

No. 703 Adapter is the same as No. 702 except for ¾-inch.

Cat. No.	Size In.	Unit Pkg.	Std. Pkg,	Wt.,Lbs., Std.Pkg.
702	½	10	20	1¼
703	¾	10	20	1¼



Adapter

For use with No. 703 for 1-inch threaded outlet on floor box.

Cat. No.	Size In.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
704	1	10	20	1¼

Straps

No. 715 is for use with 711-A Florduct and No. 745-A with 733-A Florduct.



715 — 745-A

Cat. No.	Use With	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
715	711-A	50	500	7
745-A	733-A	50	500	7

FITTINGS FOR 733-A FLORDUCT



Large Internal Adapter Elbow

For use with 733-A Florduct only. For making bends from Florduct on floor to molding on wall or baseboard—with twistouts in base for ½- and ¾-inch quarter-round.

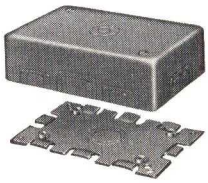
Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
740-A	5	20	1½

Adapter

888 to 333 Metal Molding used with 740-A.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
740-AR	10	20	2½



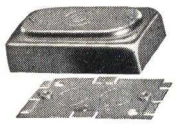
Utility Box

4⅞x3⅛; 1⅜ inches deep. Combination ½- and 1-inch KO in base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
839	1	10	10

NATIONAL ELECTRIC FLORDUCT

FITTINGS FOR 733-A FLORDUCT

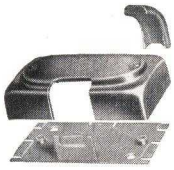


Utility Box

With combination ½-inch conduit and drop-cord eyelet. Four twistouts for molding or Xtensionduct.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
352	5	20	7

Baseboard Junction Box



For branch from top to face of baseboard. Similar to 352 but provided with opening for 333 and elbow cap.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
352-F	5	20	9

LOW-POTENTIAL FITTINGS FOR 711-A AND 733-A FLORDUCT

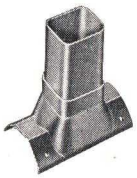


Internal Adapter Elbow

For open wiring to 733 Florduct. For telephone cables up to 2-26 pair telephone cable. Furnished with fibre bushing to be used with open wiring. Twistouts for ½- and ¾-inch quarter-round.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
739-A	5	20	1½

In-And-Out Fitting



Will take up to two 26 pair telephone cables.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
751-A	1	10	4



Service Fitting

For 711-A and 733-A Florduct with gasket to be used at the new outlet location for protecting wires leaving Florduct and extending to apparatus on desks, etc. Equipped with four triple twistouts used at ends, for through-runs or for right-angle branches. Sheath has opening for up to 26 pair telephone cable.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
***750-TA**	1	10	4½

Service Fitting



For 711-A or 733-A Florduct to be used at the new outlet location for protecting wires leaving Florduct and extending to apparatus on desks, etc. Equipped with four triple twistouts. Used at ends, for through-runs, or right-angle branches. Sheath has .422 opening.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
***750-A**	1	10	4½

*To make this fitting watertight 753-A Gasket may be used.

NATIONAL ELECTRIC FLORDUCT

LOW-POTENTIAL FITTINGS FOR 711-A AND 733-A FLORDUCT



Rubber Gasket

For use with 749-A, 750-A, 750-BA and 750-TA. To make fitting watertight.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
753-A	10	50	2¼

Service Fitting



Same as 750-A without sheath. ⅞-inch opening for ½-inch conduit.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
***750-BA**	1	10	4



Service Fitting

To be used at the new outlet location for protecting wires leaving Florduct and extending to apparatus on desks, etc. Equipped with four double twistouts for use at ends, for through-runs, or for right-angle branches. For 711-A or 733-A.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
***749-A**	1	10	4½

*To make this fitting watertight 753-A Gasket may be used.

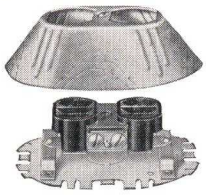
HIGH POTENTIAL FITTINGS FOR 711-A AND 733-A FLORDUCT

Single Plug Receptacle



For 711-A and 733-A Florduct. T-slots.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
760-A	1	10	7



Duplex Floor Receptacle

For 711-A and 733-A Florduct, T-slots.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
761-A	1	10	7

Brass Base

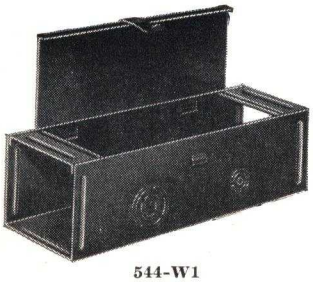


For standard ¾-inch floor receptacle and fittings. Also used with No. 768-A, 769-A and 770-A box assemblies.

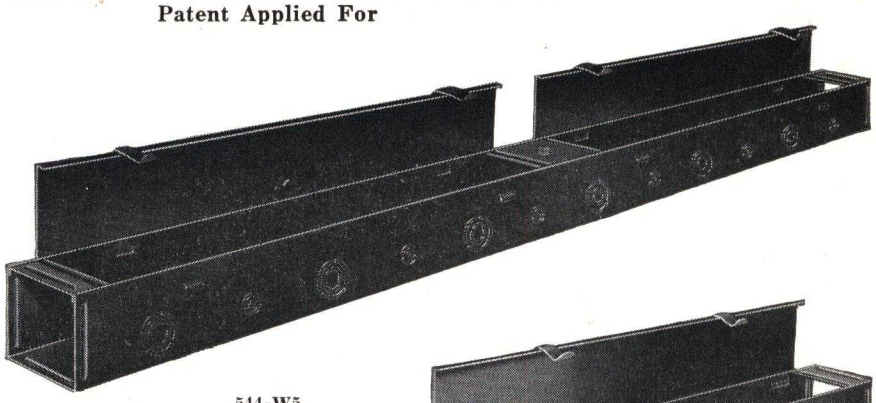
Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
764-A	1	10	9

NATIONAL ELECTRIC 4-BY-4 WIREWA

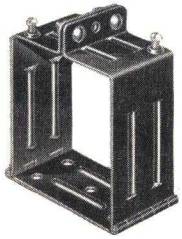
Patent Applied For



544-W1



544-W5



544-C

←

(★) Standard Coupling is included on all items marked (★)



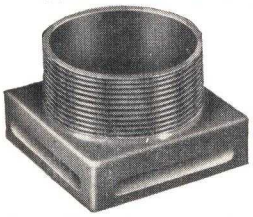
544-W2

★4X4 WIREWA

Flangeless, streamlined, steel, rigid wireway, having spring-latched hinged cover, completely accessible, for housing electrical conductors. Knockout clusters for ½-, ¾-, 1-, 1¼- and 1½-inch conduit, alternated with ½- and ¾-inch clusters are provided on 4½-inch centers in the back and sides for extensions. The interior of Wirewa is smooth and clean to facilitate the insertion of conductors. Standard finish is baked Black Enamel.

Cat. No.	Length	Wt., Lbs.
★544-W5	5 Ft. Long with Coupling	18
★544-W2	2 Ft. Long with Coupling	8½
★544-W1	1 Ft. Long with Coupling	5
544-C	Standard Clamp-type Coupling	

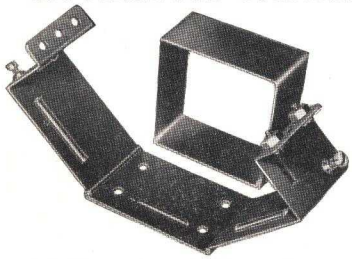
★4X4 3-INCH CONDUIT END-FITTINGS



Conduit end-fittings are threaded castings designed for rigid conduit connection to Wirewa cutout cabinets or pull-boxes. All surfaces are smooth to facilitate insertion of conductors. (Cat. No. 544-EC should be ordered where conduits smaller than 3 inches are brought directly into Wirewa ends).

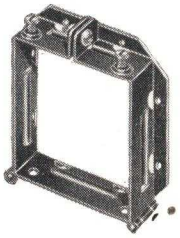
Cat. No.	Description	Wt., Lbs.
★544-C30M	With Coupling, male threads	2

4X4 PIECE-OUT COUPLING AND COLLAR



It sometimes is necessary to cut off a standard section of Wirewa to meet construction conditions. This fitting is used to join the cut off section with the adjoining section. No drilling or other work required. Setscrews provide grounding continuity as they grip cut off section of Wirewa.

Cat. No.	Description	Wt., Lbs.
544-PC	Coupling and Collar	1¼



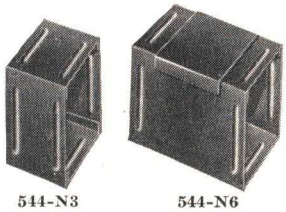
4X4 BOX CONNECTOR COUPLING AND ADAPTER

This fitting is for use in connecting Wirewa runs to panelboard cabinets, pull-boxes, terminating in end-plates. Bolts and nuts are furnished for fastening in place.

Cat. No.	Description	Wt., Lbs.
544-A	Coupling and Adapter	¾

★4X4 NIPPLES

These fittings are short lengths of Wirewa for insertion between standard sections to meet dimensional requirements where a 1-foot section or Slip-Fitting cannot be used.

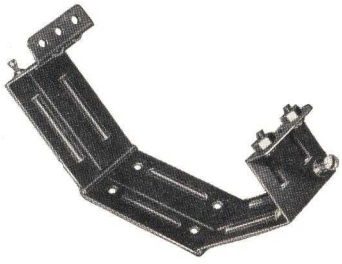


544-N3 544-N6

Cat. No.	Length	Wt., Lbs.
★544-N3	3 Inches Long with Coupling	1¾
★544-N6	6 Inches Long with Coupling	2½

4X4 ½-INCH NIPPLE COUPLING

Coupling and nipple combined for use to meet slight dimensional requirements where longer Nipples or Slip-Fittings cannot be used.



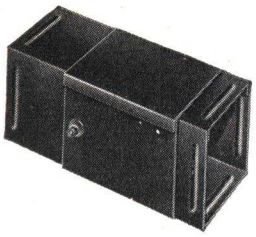
Cat. No.	Description	Wt., Lbs.
544-NC	½" Nipple and Coupling Complete	¾

(★) Standard coupling is included on all items marked (★).

Also available in galvanized 4X4 Wirewa and fittings, and in 4X4 Wirewa without knockouts.

NATIONAL ELECTRIC 4-BY-4 WIREWA

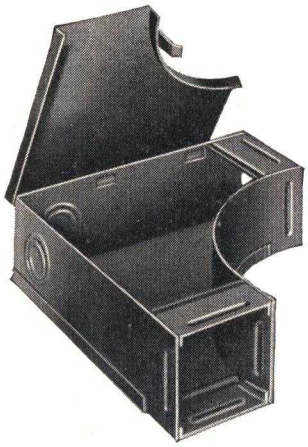
★4X4 SLIP-FITTING



Adjustable fitting for conveniently joining sections together at distances of from 10 to 16 inches where standard lengths cannot be used. It also is adapted to take up the irregular lengths required to extend to panelboard cabinets or pull-boxes. Setscrews lock the sliding portions in position and also provide grounding continuity.

Cat. No.	Description	Wt., Lbs.
★544-SF	10-Inch Min. to 16-Inch Max. with Coupling	6¼

★4X4 90° PULL-BOX ELBOWS



Three-purpose fitting providing a 90° elbow, a spring-latched, hinged-cover, roomy pull-box for pulling and splicing conductors and knockout clusters in back and sides for branch extensions.

Cat. No.	Description	Wt., Lbs.
★544-PL9	With Coupling	5½

★4X4 ELBOWS



*544-L90



*544-L45



*544-L22½

For making changes in directions such as bends of varying radii and for offsets of most any angle.

Cat. No.	Degrees	Wt., Lbs.
★544-L90	90° with Coupling	4½
★544-L45	45° with Coupling	2½
★544-L22½	22½° with Coupling	2

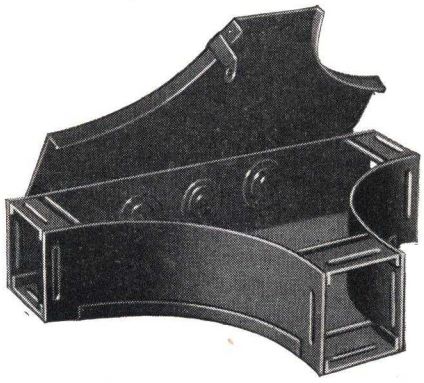
★4X4 X PULL-BOX



Junction box with Wirewa extension provisions in four directions. Has knockout cluster in back and is provided with slide bolt, two-section hinged cover.

Cat. No.	Description	Wt., Lbs.
★544-XB	With Coupling	9½

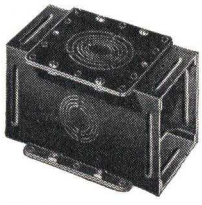
★4X4 TEE PULL-BOX



Combination fitting for straight-through wiring or future extension, right-angle change in direction, pull-box with knockout clusters in top and one side and having hinged-cover with spring-latch.

Cat. No.	Description	Wt., Lbs.
★544-TB	With Coupling	7¼

★4X4-INCH SQUARE JUNCTION BOX



Has knockout clusters in four sides, two sides are removable for accessibility. May be used in cramped locations and where larger ell and T-pull-boxes are not necessary.

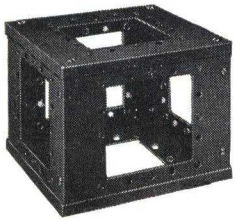
Cat. No.	Description	Wt., Lbs.
★544-B4	With Coupling	2½

(★) Standard coupling is included on all items marked (★).

Also available in galvanized 4X4 Wirewa and fittings, and in 4X4 Wirewa without knockouts.

NATIONAL ELECTRIC 4-BY-4 WIREWA

4X4 PULL-BOX

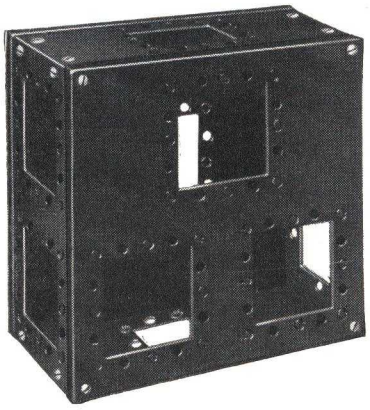


The 544-B7 Pull-Box is designed for use where more space is required than 4-inch-square junction box provides for longer bending radii in conductors and for pulling and splicing conductors. (Cat. No. 544-EP End-Plates should be ordered and installed over all unused openings.)

Cat. No.	Size, Inches	Wt., Lbs.
544-B7	$7\frac{15}{16}$ x $7\frac{15}{16}$	4

4X4 PULL-BOX

The 544-B12 Pull-Box is designed for use in multiple runs of Wirewa and where wiring conditions require more space than afforded by smaller fittings.



Cat. No.	Size, Inches	Wt., Lbs.
544-B12	$12\frac{3}{4}$ x $12\frac{3}{4}$	$9\frac{1}{2}$

★4X4 ADAPTER



This fitting is for connecting to cabinets, pull-boxes, etc., that are not wide enough to accommodate the 4-inch fittings. Bolts and nuts are provided for fastening the Adapter in place. Openings must be provided in the cabinets, etc., for inserting conductors and bolts.

Cat. No.	Description	Wt., Lbs.
★544-A25	With Coupling	¾

★4X4 END-CLOSER



This fitting has a knockout cluster and provides a means of branching off with conduit, etc., or dead-ending a Wirewa run.

Cat. No.	Description	Wt., Lbs.
★544-EC	With Coupling	$1\frac{1}{4}$

(★) Standard coupling is included on all items marked (★).

4X4 END-PLATE



This fitting is a flat plate provided with a knockout cluster and is for use in blanking all unused openings in junction boxes. Bolts and nuts are provided with this fitting.

Cat. No.	Description	Wt., Lbs.
544-EP	End-Plate	¼

4X4 HANGER—DROP TYPE



Fitting designed primarily for use in suspending Wirewa from the ceiling or roof and permits the cover to be opened in any position. No additional bolts required to fasten hanger to Wirewa.

Cat. No.	Size, Inches	Wt., Lbs.
544-H	3 x $4\frac{1}{4}$	¼

4X4 HANGER EXTENSION



Factory-made extensions are available for extending length of hanger in any desired adjustment in ½-inch steps.

Cat. No.	Length, Inches	Wt., Lbs.
544-HE	$4\frac{3}{4}$	¼

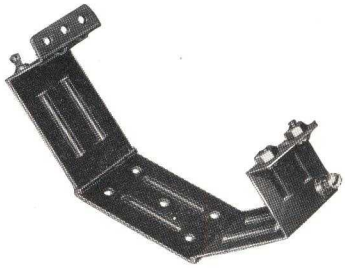
4X4 HANGER—BRACKET TYPE



Designed for side-wall mounting with openings corresponding to the bolt holes in the base of the coupling. This fitting also is adapted for ceiling mounting with cover to the sides or bottom. Flathead bolts and nuts are provided with this fitting.

Cat. No.	Size, Inches	Wt., Lbs.
544-HB	$2\frac{5}{16}$ High x $8\frac{1}{8}$	¾

4X4 STANDARD COUPLING



This clamp-type coupling, supplied with each fitting indicated is universal in its use. It not only joins adjacent sections of Wirewa together by means of its specially designed interlocking depressions but also securely clamps them in place, using only two husky, easily-handled bolts. Hangers can be attached to coupling after assembly. Holes are provided in the base of the coupling for fastening to any flat surface using bolts or screws. The coupling clamps around the Wirewa with the cover in any position. Specially-designed extrusions and setscrews establish positive grounding continuity.

Cat. No.	Description	Wt., Lbs.
544-C	Standard Coupling	¾

Also available in galvanized 4X4 Wirewa and fittings, and in 4X4 Wirewa without knockouts.

NATIONAL ELECTRIC NEPCODUCT

STANDARD SYSTEM OF CONVENIENCE OUTLETS IN THE FLOOR



For lighting and power, telephone and signal services to desks and free standing equipment.

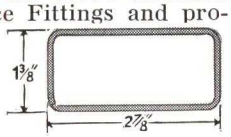
Nepcoduct is a steel underfloor raceway system providing complete mechanical security and electrical bonding as required by the National Electrical Code. One size raceway for both high and low potential wiring eliminates multiplicity of fittings. Nepcoduct is installed in all types of conventional floor construction. Junction boxes are provided for one, two and three duct systems.

Nepcoduct is installed when floor is laid and the outlets remain beneath the surface until needed. When electrical connections are wanted the outlets can be quickly opened and service fittings installed.

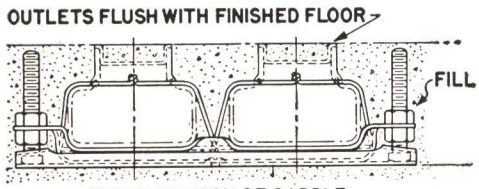
Service fittings are made of durable brushed brass or aluminum satin finish. Cover plates are used where service is discontinued.

Nepcoduct is furnished in 10 ft. lengths with outlets spaced every 24 inches. Outlets are processed in a manner to make fishing and wire pulling extremely easy. The outlets are screw-threaded for positively engaging Service Fittings and providing a continuous electrical ground.

Finished in either Black Enamel or Galvanized rustproof finish.



Blank Duct



SIDE ELEVATION OF SADDLE
Showing low position of adjustable saddle

The No. 7005 series with cross-section 1⅜ x 2⅞ inches is furnished in ten-foot lengths. The third digit of catalog numbers (which are subject to change) indicates the number of outlets per ten-foot lengths.

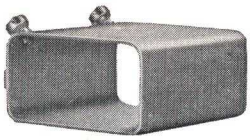
Nepcoduct is rectangular in cross-section with corners rounded or filleted to minimize the tendency of the floor cracking when it is embedded in the concrete floors. The accepted depth of duct below the finished floor is 1¼ inches. Shape of entire system, including ducts, boxes, elbows, and top of duct outlets, must be given, and also give the full maximum inside area.

Cat. No.	No. Outlets Per 10 Feet	Outlet Dia., In.	Duct Size, Inches	Wt.,Lbs., Per 100 Ft.
7005	Blank Duct		1⅜x2⅞	180
7055L	5	1.900	1⅜x2⅞	200

NATIONAL ELECTRIC NEPCODUCT

STANDARD SYSTEM OF CONVENIENCE OUTLETS IN THE FLOOR

COUPLING



Nepcoduct couplings are featured with the tangent bearing setscrews.

The tangent bearing setscrews render couplings and fittings ideal for continuous protective groundings.

Cat. No.	Description	Duct Size, Inches	Wt.,Ozs., Each
7165	Coupling	1⅜x2⅞	13

DUCT TO CABINET CONNECTORS



Duct to cabinet connectors are used where duct is turned up into wall for connection to wall cabinets or panel boxes.

Cat. No.	Description	Duct Size, Inches	Wt.,Ozs., Each
7755	Low Potential	1⅜x2⅞	12



DUCT END BLANKS

Duct end blanks are used at the dead-end of duct runs.

Cat. No.	Description	Duct Size, Inches	Wt.,Ozs., Each
7715	For Large Nepcoduct	1⅜x2⅞	11½

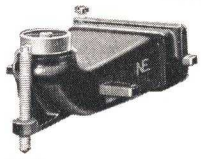
DUCT OPENING PLUGS



Duct-opening plugs are intended for closing unused duct openings in junction boxes or fittings.

Cat. No.	Duct Size, Inches	Wt.,Ozs., Each
7745	1⅜x2⅞	2

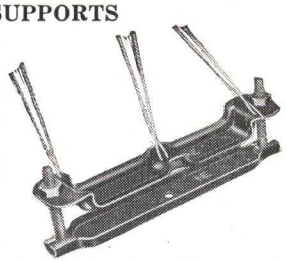
DUCT END OUTLETS



Duct End Outlets are one-piece malleable-iron castings, finished in either Black Enamel or Sherardized, and completely assembled with outlet plugs, height-adjusting screws and tangent bearing setscrews.

Cat. No.	Description	Duct Size, Inches	Wt.,Ozs., Each
7725	For Large Nepcoduct	1⅜x2⅞	12

SADDLE SUPPORTS



The Saddle Support is a two-piece assembly which harmonizes with progressive methods of installation, wherein the "layout crew" establishes all measurements and lines of duct by installing the base.

The base also serves as an indicator to all tradesmen, warning against interference, which is a very important item in costs. It can be installed as early in the building schedule as desired and withstands abuses of normal construction operations.

Cat. No.	Description	Duct Size, Inches	Wt. Lbs., Each
7405A to 7405B	Single duct	1⅜x2⅞	¾
7455A to 7455D	For 2 ducts complete	1⅜x2⅞	½
7455-5A to 7455-5D	For 3 ducts.....	1⅜x2⅞	2

NEPCODUCT SIMPLIFIED UNDERFLOOR WIRING SYSTEM

ELBOWS AND OFFSETS



No. 7215
90° Floor Elbow



No. 7325
Cross-Under Offset



No. 7235 90° Vertical
Wall Elbow Short Radius

Nepcoduct Elbows and Offsets are formed from sections of duct, assuring unobstructed and smooth raceways without reducing the cross-sectional area. Black-Enameled or Sherardized.

Elbows and offsets shown and listed meet the usual run of building conditions.

Two 45° floor elbows coupled together in reverse directions form an ideal offset; the insertion of a section of duct between the elbows increases the distance of the offset. Long-radius wall elbows may be cut in two, and one section reversed for vertical offsets.

Cross-under offsets allow other ducts or conduits to cross within the floor thickness. The amount of offset is 1 1/8 inches with offset width of 10 inches, which will accommodate two large and one small duct with standard ¾-inch spacing to cross. Overall length is 21 inches.

Elbows

Cat. No.	Radius, In.	Angle, Degrees	Duct Size, Inches	Wt. Lbs., Each
7235	3½	90	1⅜x2⅞	2⅛
7225	12	90	1⅜x2⅞	2¼

Floor Elbows

7215	14	90	1⅜x2⅞	2⅛
7245	14	45	1⅜x2⅞	1⅛

Cross-Under Offsets

7325	For Large Nepcoduct	1⅜x2⅞	2⅛



ESCUTCHEON

Escutcheon floor covering with 10/24 x1-inch screw.

Cat. No.	Finish	Potential	Wt., Ozs., Each
7140	Red Bronze	High	1
7141	Monel	Low	1

CONDUIT REDUCERS

Conduit reducers are threaded inside (female) and arranged exteriorly (male) for the threadless engagement of adapters or boxes.

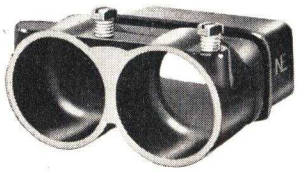


No. 7772

Cat. No.	Conduit	Size, In.	Wt., Ozs., Each
7772	Reducer	1¼ to ½	5
7773	Reducer	1¼ to ¾	4
7774	Reducer	1¼ to 1	3

NEPCODUCT SIMPLIFIED UNDERFLOOR WIRING SYSTEM

ADAPTERS—DUCT TO CONDUIT



No. 7735
Duct to Conduit



No. 7765
Duct to Conduit
Male End

Conduit connections to some junction boxes require conduit adapters although most boxes are amply provided with conduit engagements. Conduit extending from the end of the duct often is required, and a complete line of adapters is listed to meet all requirements.

With the exception of Nos. 7762 and 7762-F, all conduit engagements are 1¼-inch size. When smaller conduits are to be used, conduit reducers Nos. 7772, 7773 or 7774 are necessary.

All conduit engagements in adapters are of the threadless type employing tangent bearing setscrews.

Adapters are malleable-iron casting.

Cat. No.	Description	Duct Size, Inches	Wt., Lbs., Each
7765-F	Female to 1—1¼" cond.	1¾x2⅞	2⅛
7735	L. P. Male to 2—1¼" conduit	1⅜x2⅞	1½
7765-F	Special L. P. Female to 2—1½" conduit	1⅜x2⅞	2
7765	L.P. Male to 1—1¼" conduit	1⅜x2⅞	1
7785	Duct to 1½" conduit	1⅜x2⅞	1

ADAPTERS



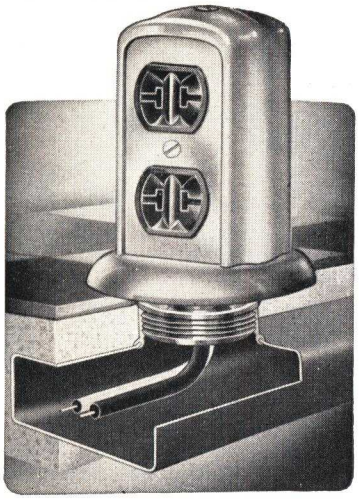
Cat. No.	Description	Wt., Ozs., Each
7924	From Duct Outlet to ½-inch conduit	3
7925	From Duct Outlet to ¾-inch conduit	2½
7926	From Duct Outlet to 1-inch conduit	2¼

OUTLET PLUGS

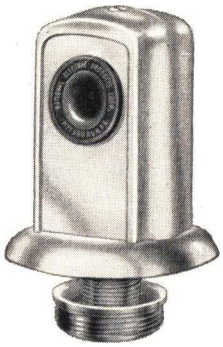
Cat. No.	Description	Wt., Ozs., Each
7105	Type A for standard outlets	2½
7110	Type B for standard outlets	1¾
7120	Type A for Type "T" outlets	7¾
7122	Type B for Type "T" outlets	6

NEPCODUCT SIMPLIFIED UNDERFLOOR WIRING SYSTEM

SERVICE FITTINGS AND ACCESSORIES



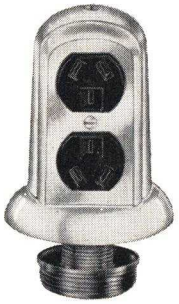
7903-L



7904-L



7930-L

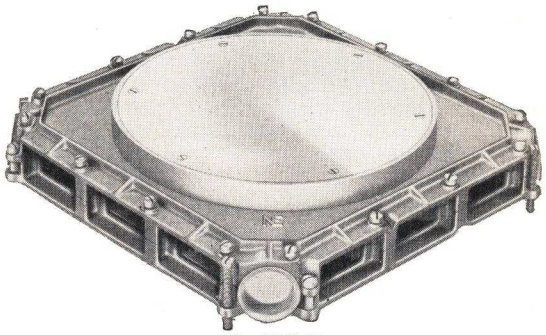


7909-L

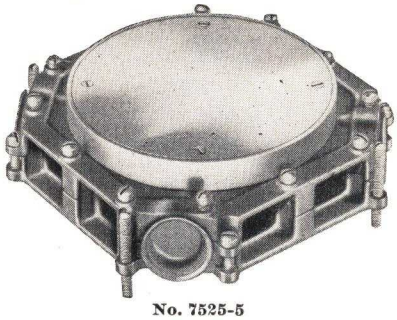
Cat. No.	Description	Wt. Lbs., Each
7903-L	Service fitting — high potential for lighting and power wiring	1¼
7904-L	Service fitting — low potential for telephone and signal wiring	1¼
7909-L	Service fitting with 3-pole receptacle	1¼
7930-L	High-potential floor receptacle and cord plug	½
7931	Low-potential floor outlet and cord plug	5/16
7933	Service fitting with duplex "T" slot receptacle, for high potential. For standard duct outlet	1
7934	Service fitting with ½-inch-diameter bushings for low potential. For standard duct outlet (1.315-inch-diameter)	1
7936	Standard outlet extension (1.315-inch diameter)	1/16
7937	Service fitting low potential, for standard outlet (1.315-inch-diameter)	1
7939	Service fitting with armored cable adapter No. 7918, for standard outlet (1.315-inch-diameter)	1½
7940	Service fitting with Duplex 3-wire receptacle, for high potential	1
7943	Dwarf fitting; same as No. 7933	1¼
7944	Dwarf fitting; same as No. 7934	1
7948	Dwarf fitting; same as No. 7939	1¼
7949	Dwarf fitting; same as No. 7940	1¼

NEPCODUCT SIMPLIFIED UNDERFLOOR WIRING SYSTEM

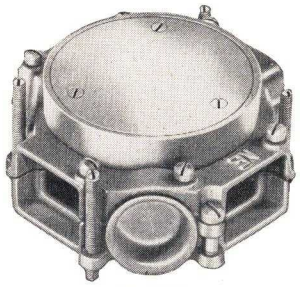
JUNCTION BOXES



No. 7535-55



No. 7525-5



No. 7515

Nepcoduct Junction Boxes are two-piece castings with cross-overs incorporated with completely separated high- and low-potential compartments. In the Underfloorduct, as in any other wiring system, it is essential that the two be kept separate, which guards against any mischance.

Junction boxes may be brought to correct floor level conditions by the use of adjusting screws for leveling and rough height adjustment. Adjustable brass tops form a finer adjustment for height to meet newly finished floor elevations such as linoleum, cork or rubber.

Ducts are secured to the boxes by tangent bearing setscrews, assuring positive mechanical and electrical contact.

Cat. No.	Description	Duct Size, Inches	Wt. Lbs., Each
7515	Single compartment with single duct and four conduit openings	1⅜x2⅞	8
*7525–5	Two compartment, double duct	1⅜x2⅞	21
*7535–55	Three compartment, triple duct	3–1⅜x2⅞	43

*Partitions in multiple duct boxes can be omitted on special order.

SQUARE-Duct AND FITTINGS

SQUARE-Duct WIRING TROUGH



The trough is flanged at both ends so that two sections can be clamped togther. The cover is hinged. Knockouts are provided in the sides and back for ½ and ¾-inch conduit in 2½x2½ duct and ½, ¾, 1 and 1¼-inch conduit in 4x4 and 6x6 duct.

Cat. No.	Size In.	Lgth. Feet	Price Each	Cat. No.	Size In.	Lgth. Feet	Price Each
20241	2½x2½	1	$2.50	20443	4x4	5	$8.00
20242	2½x2½	2	3.00	20641	6x6	1	12.00
20243	2½x2½	5	5.00	20642	6x6	2	16.00
20441	4x4	1	4.00	20643	6x6	5	26.00
20442	4x4	2	5.00	.....	.....	..	.....



NIPPLES

For use where shorter connection than afforded by 1-foot lengths or the telescope fittings are required.

Cat. No.	Lgth. In.	Size In.	Price Each	Cat. No.	Lgth. In.	Size In.	Price Each
20200	½	2½x2½	$1.50	20403	3	4x4	$3.00
20202	2	2½x2½	3.00	20406	6	4x4	4.00
20203	3	2½x2½	3.00	20600	½	6x6	6.00
20206	6	2½x2½	4.00	20602	2	6x6	7.00
20400	½	4x4	1.50	20603	3	6x6	7.50
20402	2	4x4	3.00	20606	6	6x6	8.50

UNIVERSAL DROP HANGERS

Fitting used for suspending wiring trough from overhead. Holes in hanger match holes in collar of wiring trough. Provided with screws and nuts for mounting.



Cat. No.	Size Inches	Wt. Lbs. Each	Price Each
20217	2½x2½	½	$0.50
20417	4 x4	¾	.60
20617	6 x6	....	3.00



UNIVERSAL BRACKET HANGER

Fitting used for mounting wiring trough on the side of wall. Holes in hanger match the holes in the wiring trough collar. Screws and nuts furnished for mounting.

Cat. No.	Size Inches	Wt. Lbs. Each	Price Each
20227	2½x2½	½	$0.50
20427	4 x4	¾	.60
20627	6 x6	....	3.00

REDUCING FITTING

Cat. No.	For Joining	Price Each
20422	4x4 to 2½x2½ duct	$2.30
20622	6x6 to 4 x4 duct	5.00

TROUGH COLLAR

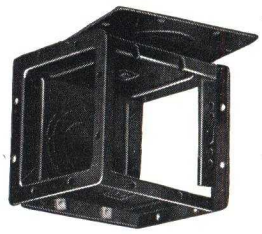
This fitting is used when it is necessary to cut a standard section of wiring duct.



Cat. No.	Size Inches	Wt. Lbs. Each	Price Each
20240	2½x2½	¼	$0.60
20440	4 x4	⅔	.80
20640	6 x6	....	3.00

Prices on cadmium plated SQUARE-Duct and fittings furnished on request.

SQUARE-Duct FITTINGS



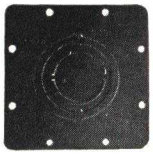
JUNCTION BOX

To form T, L or cross. Price includes 2 closing plates. Cover is removable.

Cat. No.	Size Inches	Wt. Lbs. Each	Price Each
20248	2½x2½	1¼	$2.50
20448	4 x4	2½	3.00
20648	6 x6	3	11.00

CLOSING PLATE

For closing end section or any side of junction box. Knockouts are provided.



Cat. No.	Size Inches	Wt. Lbs. Each	Price Each
20216	2½x2½	½	$0.60
20559	4 x4	¾	.80
20659	6 x6	1	3.00

PANEL FITTING COLLAR

For connecting duct to panels. By cutting hole size of duct in panel box and clamping box wall between panel fitting collar and duct collar, a solid connection is made free from rough edges.

Cat. No.	Size In.	Wt.Lbs. Each	Price Each	Cat. No.	Size In.	Wt.Lbs. Each	Price Each
20221	2½x2½	¼	$0.60	20621	6x6	1	$3.00
20421	4 x4	½	1.30	.....	.....	..	.....

TELESCOPE FITTING

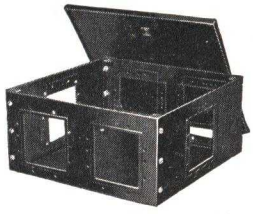


Slide arrangement for making connections to duct fittings at varying distances. 2½x2½ size extends from 7½ to 12 inches; 4x4 and 6x6 sizes from 8 to 12 inches.

Cat. No.	Size Inches	Extends Inches	Price Each
20244	2½x2½	7½-12	$3.00
20444	4 x4	8 -12	4.50
20644	6 x6	8 -12	36.00

PULL BOX

Box price includes two sides with double opening and two with single openings but does not include closing plates for unused openings.



Cat. No.	Description	Size Inches	Price Each
20558	Pull Box	4x4	$18.00
20658	Pull Box	6x6	63.00
20559	Closing Plate	4x4	.80
20659	Closing Plate	6x6	3.00
20561	Box Side, 1 Opening	4x4	3.00
20661	Box Side, 1 Opening	6x6	12.00
20562	Box Side, 3 Openings	4x4	4.00
20662	Box Side, 2 Openings	6x6	15.00



T FITTING—PULL BOX

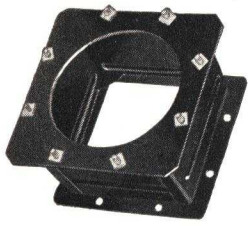
Specially designed to eliminate sharp angle bends.

Cat. No.	Size Inches	Wt. Lbs.	Price Each
20471	4x4	8	$11.00
20671	6x6	10	36.00

Prices on cadmium plated SQUARE-Duct and fittings furnished on request.

SQUARE-Duct FITTINGS

BOX FITTING



For connecting duct to panels, pull boxes, etc. One end fits round hole in box, the other end matching duct collar.

Cat. No.	Size Inches	Wt. Lbs.	Price Each
20249	2½x2½	1	$5.00
20449	4 x4	1½	5.00
*20467	4 x4	.....	5.00
20649	6 x6	.....	36.00
*20667	6 x6	.....	36.00

*For square hole in box or panel cabinet.

90° ELBOW AND PULL BOX

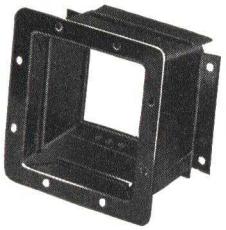
Designed to eliminate sharp right angle bends. End flanges are extruded one piece construction eliminating all sharp edges. For 4x4-inch duct.



Cat. No.	Size Inches	Wt. Lbs.	Price Each
20472	4x4	5½	$9.00
*20490	4x4	.....	5.50
20672	6x6	.....	28.00

*90° Elbow without hinged cover. 20472 has hinged cover as shown.

T FITTING

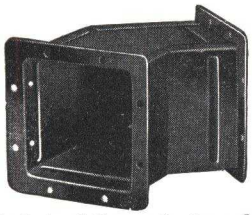


For T connection. Cut hole inside of duct and drill holes to match holes in flange on narrow end of fitting.

Cat. No.	Size Inches	Wt. Lbs.	Price Each
20247	2½x2½	¾	$3.00
20447	4 x4	1½	4.50
20647	6 x6	.....	16.00

7½, 22½ AND 45 DEGREE ELBOWS

The holes in the flanges match the holes in the ends of wiring trough section. The elbow is provided with screws and nuts for clamping 2 fittings together for a 90° bend or for clamping to a wiring trough section.



Fitting is of such length that 4 of them fastened together will cross over or bridge another wiring trough section.

Cat. No.	Degree Elbows	Size In.	Price Each
20207	7½	2½x2½	$2.00
20407	7½	4x4	2.50
20607	7½	6x6	9.00
20255	22½	2½x2½	3.00
20455	22½	4x4	5.00
20655	22½	6x6	$16.00
20245	45	2½x2½	3.00
20445	45	4x4	5.00
20645	45	6x6	16.00

SQUARE D SCREW COVER DUCT

Furnished with keyhole slots. This eliminates necessity of entirely removing screws when cover is removed. It is carried in stock in 1, 2, 3 and 4-foot lengths. All holes are punched to template so that parts are interchangeable. Sufficient knockouts are provided for convenience of installation.

Finished in black enamel.

SCREW COVER DUCT



4448

Cat. No.	Size	Length	Wt. Lbs.	List Price
4412	4x4	1 foot	3	$2.00
4424	4x4	2 foot	6	3.50
4436	4x4	3 foot	9	5.50
4448	4x4	4 foot	12	7.00
4612	4x6	1 foot	3½	4.00
4624	4x6	2 foot	7	5.00
4636	4x6	3 foot	10½	7.00
4648	4x6	4 foot	14	9.00
6612	6x6	1 foot	4	4.50
6624	6x6	2 foot	8	6.00
6636	6x6	3 foot	12	9.00
6648	6x6	4 foot	16	12.00

SCREW COVER DUCT FITTINGS

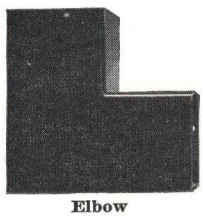


End



Connector

	ENDS				CONNECTORS		
Size	Cat. No.	Comb. K.O.	Wt. Lbs.	List Price	Cat. No.	Wt. Lbs.	List Price
4x4	44E	½-¾-1-1¼	¼	$0.50	44C	¾	$0.50
4x6	46E	½-¾-1-1¼	½	.60	46C	½	.60
6x6	66E	1¼-1½-2	1	.90	66C	1	.80



Elbow

	ELBOWS			TEES		
Size	Cat. No.	Wt. Lbs.	List Price	Cat. No.	Wt. Lbs.	List Price
4x4	44L	3	$5.00	44T	4	$7.00
4x6	46L	4	6.00	46T	5	13.00
6x6	66L	5	7.00	66T	7	15.00

FEEDRAIL

PRE-FABRICATED ELECTRICAL DISTRIBUTION SYSTEMS

Electric Feedrail consists of unit sections of steel-enclosed bus bars which may be bolted together to form any length or shape of system. Polarized throughout.

Movable outlets or trolleys make contact with bus bars and provide a readily movable support for portable tools or other equipment.

Extensively used for high-cycle and universal portable tools, production lines, electric hoists and generally as a convenient and easily installed method of providing light and power outlets.

Electric Feedrail is made in two sizes—Feedrail "100" is the heavier system used for power applications in industrial plants for cranes, hoists and large portable tools.

Feedrail "60" is lighter and especially built to fill requirements for a smaller but rugged system for industrial lighting, small tools, sewing machines and cloth cutting machines.

The uses of Feedrail are being increased daily by ingenious plant engineers. Many plants, large and small, have improved the flexibility of their electrical supply with Feedrail systems.

FEEDRAIL "60" TRACK

60 Amps.—250 V.—A.C. or D.C.

FEEDRAIL "60" STRAIGHT SECTIONS



10′-0″ Lengths Complete with Bus Bars

Track	Three Phase Cat. No.	Three Phase List Each	Single Phase Cat. No.	Single Phase List Each
Plain	FRS–100	$35.00	FRS–200	$30.00
Door	FRS–101	40.00	FRS–201	35.00

5′-0″ Lengths Complete with Bus Bars

Plain	FRS–100–5	$20.00	FRS–200–5	$17.50
Door	FRS–101–5	25.00	FRS–201–5	22.50

NOTE: It is recommended that a minimum of one door section for insertion and removal of trolleys be used with every five sections of plain track.

For track sections less than standard lengths multiply the linear footage of the short section by the list price per foot of the corresponding 10′-0″ section and add **$17.00** list for special fabrication. Figure fractions as an extra foot.

FEEDRAIL "60" ACCESSORIES

Cat. No.	Description	List Each
FRS-102	Coupling Set	$1.25
FRS-103	Center Feed Set	5.00
FRS-104	Sectionalizing Insulator	3.00
FRS-105	Track Hanger Set	.50
FRS-106	End Feed Set	6.00
FRS-107	Dead End Cap	2.50
FRS-108	Messenger Cable Track Hanger Set	1.00
FRS-110	Junction Box with Lugs	8.00
FR -105	Clevis Support	1.00

FEEDRAIL "60" TROLLEYS

15 Amps.—250 V.—A.C. or D.C.



Fused Type



Non-Fused Type

Non-Fusible with ½″ Nipple

Cat. No.	Phase	Type of Contact	List Each
FRS-21	1	Brush	$5.50
FRS-1	3	Brush	6.00
FRS-31	1	Roller	6.50
FRS-11	3	Roller	7.00

Non-Fusible with Cable Clamp

FRS-22	1	Brush	6.00
FRS-2	3	Brush	6.50
FRS-32	1	Roller	7.00
FRS-12	3	Roller	7.50

Non-Fusible with Tool Hanger

FRS-23	1	Brush	6.50
FRS-3	3	Brush	7.00
FRS-33	1	Roller	7.50
FRS-13	3	Roller	8.00

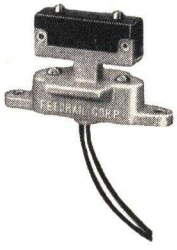
Fusible with Cable Grip

FRS-29	1	Brush	23.00
FRS-9	3	Brush	25.00
FRS-39	1	Roller	25.00
FRS-19	3	Roller	27.00

FEEDRAIL "60" PLUG IN JACKS

8 Amps.—Single Phase—250 V.—A.C. or D.C.





No. FRS-40—Non-fusible. Designed for use with standard 4-inch octagonal outlet box. Complete with 6-inch long leads. List Each.....**$3.50**

No. FRS-41—Non-fusible. Complete with 2 pole convenience receptacle and lug for supporting lighting fixtures. List Each.....**$6.00**

No. FRS-42—Fusible. Complete with 2 pole convenience receptacle and lug for supporting lighting fixtures. Will accommodate 2—3 AG glass fuses. List Each **$10.00**

No. FRS-111—Fixture hanger designed as an auxiliary weight support in conjunction with "60" Plug-in Jacks. List Each.....**$0.50**

FEEDRAIL "100" TRACK



100 Amps.
250 V. D.C.
575 V. A.C.

FEEDRAIL "100" STRAIGHT SECTIONS

10′-0″ Lengths Complete with Bus Bars

	Three Phase Cat. No.	Three Phase List Each	Single Phase Cat. No.	Single Phase List Each
Standard Track				
Plain	FR-100	$60.00	FR-200	$55.00
Door	FR-101	70.00	FR-201	65.00
Transfer Track				
Plain	FR-125	95.00	FR-225	90.00
Door	FR-126	105.00	FR-226	100.00
Sectionalizing Track				
Plain	FR-127	80.00	FR-227	75.00
Door	FR-128	90.00	FR-228	85.00

For standard track sections less than 10′-0″ long—Multiply the linear footage of the short section by the list price per foot of the corresponding 10′-0″ section and add **$40.00** list for special fabrication. Figure fractions of one foot as an extra foot.

For transfer track sections less than 10′-0″ long—multiply the linear footage of the short section by the list price per foot of the corresponding 10′-0″ standard track section and add **$40.00** list for special fabrication plus **$35.00** list for one transfer end and **$65.00** list for two transfer ends. Figure fractions of one foot as an extra foot. For feed boxes installed in transfer track sections add **$20.00** list for each feed box required.

For sectionalizing track sections less than 10′-0″ long—Multiply the linear footage of the short section by the list price per foot of the corresponding 10′-0″ standard track section and add **$40.00** list for special fabrication plus **$20.00** for one sectionalizing end and **$40.00** for two sectionalizing ends. Figure fractions of one foot as an extra foot. For feed boxes installed in sectionalizing track add **$20.00** list per each feed box required.

FEEDRAIL "100" CURVED SECTIONS

90° Curves Complete with Bus Bars

	Three Phase Cat. No.	Three Phase List Each	Single Phase Cat. No.	Single Phase List Each
*3′-0″ Radius	FR-113	$130.00	FR-213	$130.00
*4′-6″ Radius	FR-114	160.00	FR-214	160.00
5′-6″ Radius	FR-111	195.00	FR-211	195.00
6′-6″ Radius	FR-121	230.00	FR-221	230.00
7′-6″ Radius	FR-112	260.00	FR-212	260.00

Curved sections other than those listed should be figured at **$50.00** list per linear foot. Figure fractions of one foot as an extra foot.

*Short radius "C" type or heavy duty "D" type trolleys are required with curved sections of less than 5′-6″ radius.

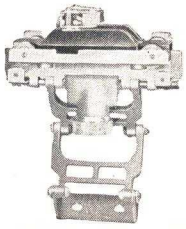
FEEDRAIL "100" ACCESSORIES

Cat. No.	Description	List Each
FR-102	Coupling Plate Set	$5.00
FR-103	Center Feed Box with terminals—Top Conduit Outlet	10.00
FR-105	Clevis Support	1.00
FR-106	End Feed Box with terminals—Top Conduit Outlet	10.00
FR-107	Dead End Cap	3.50
FR-108	End Feed Box with terminals—Reversible Conduit Outlet	10.00
FR-108G	End Feed Box with terminals and Cable Grip—Reversible Conduit Outlet	12.00
FR-124	Transfer Point Coupling Set	5.00

NOTE—One Cat. FR-102 Coupling Plate Set is furnished no charge with each section of track.

FEEDRAIL "100" TROLLEYS

TROLLEYS FOR CRANE AND HOIST APPLICATIONS

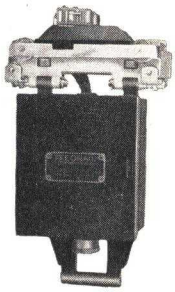


Non-Fusible—30 Amps.
250 V. D.C.—575 V. A.C.

Cat. No.	Phase	Type of Contact	List Each
Transfer Trolleys			
FR-67	1	Brush	$72.00
FR-13	3	Brush	77.00
Crane Trolleys			
FR-66	1	Brush	$55.00
FR-6	3	Brush	60.00

NOTE—"C" or "D" type trolleys must be used with curved track sections of less than 5′-6″ radius. All trolleys listed can be furnished in "C" or "D" type by adding the suffix C or D to the catalog number of the trolley selected. "D" type trolleys with receptacles or 440 volt fuse blocks have a maximum capacity of 30 amperes. For "C" type add **$11.00** to the list price. For "D" type add **$30.00** to the list price.





TROLLEYS WITH BEVELED TYPE CABINETS

Non-Fusible—With Receptacles

Phase	Volts	Amps.	Roller Type Contact Cat. No.	Roller Type Contact List Each	Amps.	Brush Type Contact Cat. No.	Brush Type Contact List Each
1	440	20	FR-38	$43.00	20	FR-62	$47.00
3	440	20	FR-12	46.00	20	FR-72	52.00
3	440	20	FR-312	48.00	30	FR-372	54.00
Fusible—With Receptacles							
1	250	20	FR-30	50.00	20	FR-60	54.00
3	250	20	FR-10	55.00	20	FR-70	61.00
3	250	20	FR-310	57.00	30	FR-370	63.00

TROLLEYS WITH BOX TYPE CABINETS

Non-Fusible—Without Receptacles

1	575	20	FR-31	31.00	30	FR-94	35.00
3	575	20	FR-41	34.00	30	FR-84	40.00
Fusible—Without Receptacles							
1	250	20	*FR-29	34.50	30	*FR-96	38.50
3	250	20	*FR-9	38.00	30	*FR-86	44.00
1	250	20	FR-39	38.00	30	FR-97	42.00
3	250	20	FR-19	43.00	30	FR-87	49.00
1	440	20	*FR-23	46.00	30	*FR-98	50.00
3	440	20	*FR-43	56.00	30	*FR-88	62.00
Fusible—With Receptacles							
1	440	20	*FR-32	58.00	20	*FR-99	62.00
3	440	20	*FR-2	68.00	20	*FR-89	74.00
3	440	20	*FR-302	70.00	30	*FR-389	76.00

*These trolleys are equipped with open type fuse blocks. All other fusible trolleys are equipped with Feedrail Corporation dead front fuse blocks.

TROLLEYS WITH HANGER TYPE CABINETS

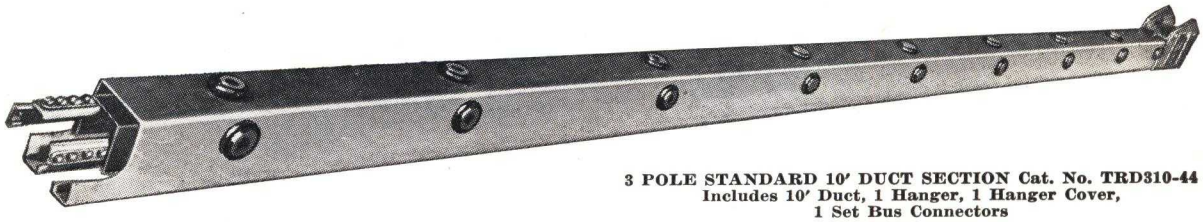
Non-Fusible—Without Receptacles

Phase	Volts	Amps.	Roller Type Contact Cat. No.	Roller Type Contact List Each	Amps.	Brush Type Contact Cat. No.	Brush Type Contact List Each
1	575	20	FR-35	$27.00	30	FR-95	$31.00
3	575	20	FR-5	30.00	30	FR-85	36.00

BULLDOG FLEXIBLE Trol-E-Duct SYSTEMS

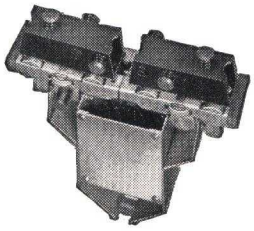
(Portable Electricity)

INDUSTRIAL TYPE

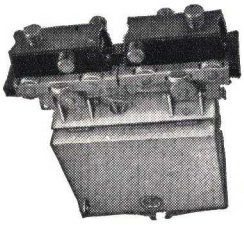


3 POLE STANDARD 10′ DUCT SECTION Cat. No. TRD310-44
Includes 10′ Duct, 1 Hanger, 1 Hanger Cover, 1 Set Bus Connectors

BullDog Industrial Trol-E-Duct is a flexible, mobile electrical system providing a constant source of electric power for **Cranes, Hoists, Portable Electric Tools** and other moving loads. It carries current through copper bus bars enclosed in steel duct. The current is collected by trolleys to which are wired portable or movable electrical devices.



A Heavy Duty Trolley assembled to Plain Tool Hanger which has removable side plates for ready access to wiring connections.



Trolley assembled to Box Tool Hanger, which has, in addition to the tool hanger, a hinged box or enclosure for the mounting of fuses, receptacles, starters and similar devices.

LIST PRICES

Standard 10′ Duct Sections

3 Pole 575 Volts or Less

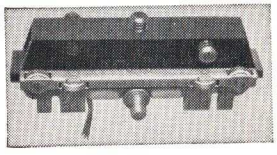
Cat. No. **TRD310-44** Standard Section **$50.00**
Cat. No. **TRD310R-44** Drop-Out Section **60.00**

TROLLEYS WITH TOOL HANGERS

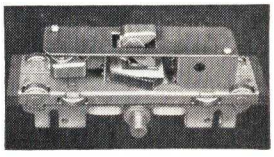
575 V. or less (not fusible) with Plain Tool Hanger. 3 Pole	575 V. or less (fusible) with Box Tool Hanger. 3 Pole
Standard Trolley	**Standard Trolley**
Cat. No. **T33101 $26.00**	Cat. No. **T33104 $54.50**
Heavy Duty Trolley	**Heavy Duty Trolley**
Cat. No. **T33201 38.00**	Cat. No. **T33204 66.50**

TROLLEYS ONLY

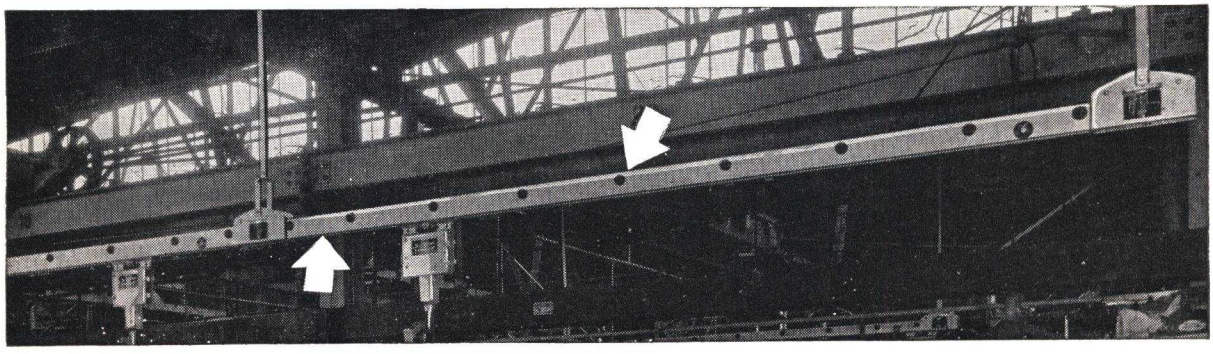
Standard	Shoe Type
Cat. No. **T331**.....**$18.00**	Cat. No. **TR331-1 $33.00**
Heavy Duty	**Curve Type**
Cat. No. **T332**..... **30.00**	Cat. No. **T334**..... **42.00**



STANDARD TYPE TROLLEY
3 Phase Cat. No. T331



SHOE TYPE TROLLEY
3 Phase Cat. No. TR331-1



Industrial Trol-E-Duct used with Portable Electric Tools

BULLDOG FLEXIBLE Trol-E-Duct SYSTEMS

(Portable Electricity)

UNIVERSAL TYPE — "700" LINE

Universal Trol-E-Duct provides a **flexible** wiring system, in contrast to the old fixed outlet system. It consists of standardized duct sections enclosing copper busbars into which can be inserted Plugs and Trolleys for feeding current to lights and small tools.

DUCT LENGTHS



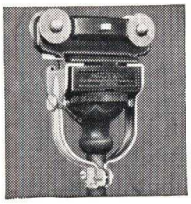
Rated capacity: 50A., 250V. Available in ten lengths, measured from ends of busbars.

Cat. No.	Length	List Each	Std. Pkg.	Wt. Std. Pkg.
D710	10′	**$8.00**	10	60 lbs.
D709	9′	**8.00**	10	55 lbs.
D708	8′	**8.00**	10	50 lbs.
D707	7′	**7.00**	10	45 lbs.
D706	6′	**7.00**	10	37 lbs.
D705	5′	**6.50**	10	30 lbs.
D704	4′	**6.50**	10	25 lbs.
D703	3′	**4.50**	10	17 lbs.
D702	2′	**4.50**	10	12 lbs.
D701	1′	**3.00**	10	5 lbs.

PLUGS AND TROLLEYS



TPG712



RTG712

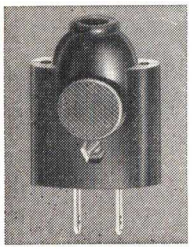
The Terminal type Plug or Trolley is used where the connection to the light fixture or appliance is likely to be permanent; **the Receptacle type where** it is necessary to frequently disconnect the appliance or fixture. Cord set **not** included.

Plugs — 125V. 20A. A.C. — 15A. D.C.

Cat. No.	Type	List Each	Std. Pkg.	Wt. Std. Pkg.
TPG712	Term'l	**$2.00**	20	4 lbs.
RPG712	Recept.	**2.00**	20	4 lbs.

Trolleys 20A. 250V. A.C.-D.C.

TTG712	Term'l	**3.00**	20	4½ lbs.
RTG712	Recept.	**3.00**	20	4½ lbs.



FUSIBLE PLUG

Used for individual fusing of fluorescent lights or similar loads which are independently supported from the duct. Recommended for use with Receptacle Trolley RTG713 or Receptacle Twistout Plug RPG-713. Takes ¼x1¼-inch 3AG glass tube fuses up to 8 amps.

Cat. No.	List Each	Std. Pkg.	Wt. Lbs. Std. Pkg.
FP502	**$0.45**	10	1¼



H210-2

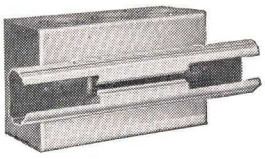
HANGERS

Two Types — Standard, without hooks for mounting flush against wall or ceiling and with hooks for use with Messenger Cable.

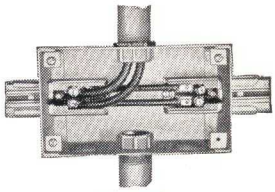
Cat. No.	Size Hooks	List Each	Std. Pkg.	Wt. Lbs. Std. Pkg.
H710-0	No	**$0.10**	100	6¼
H210-2	1¼″	**.30**	50	6¼
H210-3	3¼″	**.30**	100	12½

DUCT COUPLINGS

They provide a means for joining the Duct Sections electrically and mechanically.



FCB710



FCB711

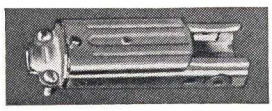
Standard Couplings

Cat. No.	Type	List Each	Std. Pkg.	Wt. Std. Pkg.
C710	Plain	**$1.50**	40	15 lbs.
TC710	Trolley Ent.	**3.00**	20	9 lbs.
USC710	Sectn'lzd	**3.50**	10	5½ lbs.
UC710	Union	**3.00**	10	5½ lbs.

Feed-In Couplings With Outlet Box

FCB710	Standard	**7.00**	4	10 lbs.
SFB710	Sectn'lzd	**8.00**	4	10 lbs.
FCB711	Standard	**7.00**	4	10 lbs.
SFB711	Sectn'lzd	**8.00**	4	10 lbs.
EFB711	End Feed	**6.00**	4	10 lbs.

END CAPS



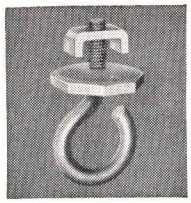
PEP250



TEC210

Used for closing up the ends of duct runs; **also** as feed-in or trolley entrance point.

Cat. No.	Type	List Each	Std. Pkg.	Wt. Std. Pkg.
PEP250	Cord Grip	**$3.00**	10	3¾ lbs.
PEP230C	Cord Clamp	**2.50**	10	3¾ lbs.
TEC210	Trolley Ent.	**1.50**	20	5 lbs.



WS710B

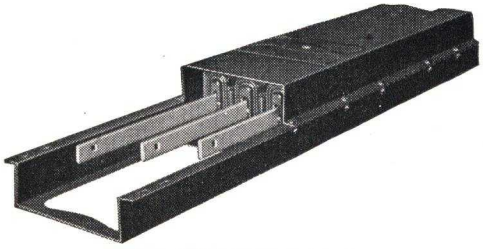
WEIGHT SUPPORT

Inserted **in the Duct, it sup**ports loads such as lighting fixtures, transformers, etc., up to 75 lbs. It locks in place by turning 90 degrees in duct, bringing prongs of clamp down into duct grooves and then tightening lock nut against the outside of duct.

Cat. No.	List Each	Std. Pkg.	Wt. Std. Pkg.
WS710B	**$0.30**	50	4½ lbs.

BULLDOG FLEXIBLE BUStributionDUCT SYSTEMS

TYPE "BD" PLUG-IN DUCT FOR BRANCH CIRCUITS



Type "BD" Plug-in Duct

600 Volts or Less — A.C. or D.C.

Type "BD" Plug-in DUCT has provision for insertion of branch circuit plugs. Ten crescent shaped openings are provided in each standard 10′ section, five on one side and five on the other. Plugs may be inserted on both sides of the duct.

Type "BD" Plug-in DUCT is furnished in capacities ranging from 225 to 1350 amperes inclusive, for 2 or 3 pole services; 600 volts or less A.C., or D.C. It is also available for three phase four wire 250 volts or less A.C., or D.C.

"BD" DUCT—ST'D 10′ SECTIONS

Three Pole

Amp. Cap.	Bus Bars Per Leg	Cat. No.	List Price	App. Wt.
225	1—.05 x 2″	BDP302	$60.00	80
400	1—¼ x 1½″	BDP304	95.00	120
600	1—¼ x 2″	BDP306	120.00	140
	Three Phase, Four Wire (½ Cap. Neut.)			
225	1—.05 x 2″	BDP402	80.00	85
400	1—¼ x 1½″	BDP404	125.00	130
600	1—¼ x 2″	BDP406	150.00	150

FITTINGS

Single Phase, 3 Phase and 3 Phase 4 Wire

Amp. Cap.	End Closers Cat. No.	End Closers List Price	Flange End Cat. No.	Trans. Tap. Opening Cat. No.	Ebony End Closer Cat. No.	List Price
225	ECP6	$10.00	FEP6	TTD2	EEP2	$25.00
400				TTD4	EEP4	25.00
600				TTD6	EEP6	25.00

END CABLE TAP BOXES

Three Pole

Tap Box Amp. Cap.	Duct Ampere Capacity 225 Cat. No.	440 Cat. No.	600 Cat. No.	End Tap Box List	Tap Box App. Wt.
225	ETB302A	ETB304A	ETB306A	$50.00	22
400		ETB304B	ETB306B	50.00	23
600			ETB306C	50.00	25
	Three Phase Four Wire				
225	ETB402A	ETB404A†	ETB406A	60.00	27
400		ETB404B	ETB406B	60.00	27
600			ETB406C	60.00	28

†Use when 225A. Tap Box is used with 250 A. Duct.

"BP" BUS PLUG — FUSIBLE*

Amp. Cap.	3 Pole Catalog Number	List Price	H.P. A.C.	App. Wt.	4 Pole — Solid Neutral Catalog Number	List Price	H.P. A.C.	App. Wt.
	230 Volt A.C.				**230 Volt A.C.**			
30	BP321	$22.00	3	11	BP421	$32.00	3	13
60	BP322	22.00	7½	11	BP422	32.00	7½	13
100	BP3237	30.00	15	12	BP4237	44.00	15	14
	575 Volt A.C.							
30	BP351	22.00	7½	11				
60	BP352	22.00	20	11				
100	BP3537	35.00	30	12				

*VACU-BREAK and "BP" BUS PLUGS — Non-Fusible Prices same as 230 Volt Fusible.

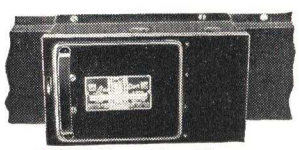


Vacu-Break "BOS" Switch Plug

Handle Operating Type
30 Amp. to 600 Amp. 2, 3, & 4 Poles. 575 Volts or less.

VACU-BREAK PLUG — FUSIBLE*

Amp. Cap.	Catalog Number	List Price	H.P. A.C.	App. Wt.
	3 Pole — 230 Volt A.C.			
30	BOS 14321	$33.00	3	18
60	BOS 14322	37.00	7½	18
100	BOS 14323	57.00	15	21
200	BOS 14324	96.00	30	30
400	BOS 14325	192.00	50	100
600	BOS 14326	264.00	....	110
	4 Pole S.N. — 230 Volt A.C.			
30	BOS 16421	$39.00	3	18
60	BOS 16422	43.00	7½	18
100	BOS 16423	69.00	15	21
200	BOS 16424	114.00	30	30
400	BOS 16425	212.00	50	100
600	BOS 16426	292.00	....	110
	3 Pole — 575 Volt A.C.			
30	BOS 14351	$33.00	7½	18
60	BOS 14352	37.00	20	18
100	BOS 14353	63.00	30	21
200	BOS 14354	108.00	50	30
400	BOS 14355	219.00	....	100
600	BOS 14356	324.00	....	110



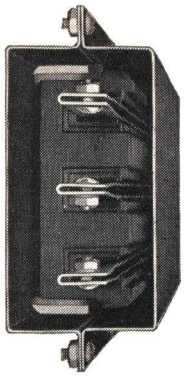
"BP" Type Bus Plug

Cover Disconnect Type
30 Amp. to 100 Amp. 2, 3, & 4 Poles. 575 Volts or less.

BULLDOG FLEXIBLE BUStributionDUCT SYSTEMS

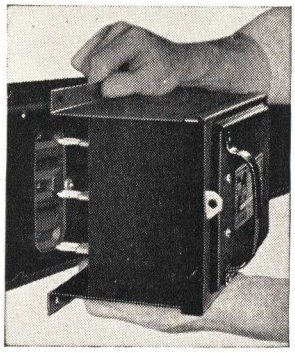
TYPE "BDA" PLUG-IN DUCT FOR BRANCH CIRCUITS

600 Volts or Less — A.C. or D.C.



Type "BDA" Duct

Type "BDA" Plug-in Duct (200 Amp. Maximum) has been specially designed for use in factories, garages, repair shops and similar places where the total connected loads are small, and individual motor circuits are not in excess of 100 amperes. Type "BDA" Plug-in Duct is furnished for 2 and 3 pole service, 600 volts or less. Plug-in openings are provided on both sides of the duct.



Bus Plug

3 POLE — 10′ DUCT SECTIONS

Amp. Cap.	200
Bus Bars Per Leg	1—.05 x 2″
Cir. Mils Per Leg	127,324
Catalog Number	BDA302
Approx. Wt.	80 lbs.
List Price	$55.00

END CLOSERS (End Tap Boxes)

Single or Three Phase

Amp. Cap.	200
Catalog Number	EC1
List Price	$7.00

BUS PLUGS

3 Pole — 230 Volt A.C.

Amp. Cap.	Catalog Numbers	List Price	H.P. A.C.	App. Wt.
30	BSU321	$18.00	3	12
60	BSJ322	18.00	7½	12
100	BSJ3237	24.00	15	13

3 Pole — 575 Volt A.C.

30	BSJ351	20.00	7½	13
60	BSJ352	20.00	20	13
100	BSJ3537	27.00	30	14

PLUG-IN CABLE TAP BOXES

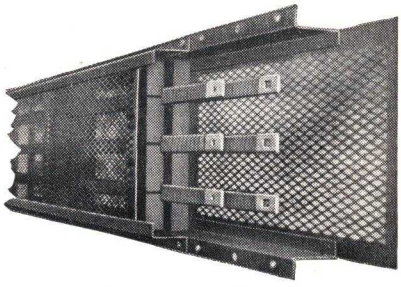
Three Phase

Amp. Cap.	200
Catalog Number	PT31
List Price	$30.00

VENTILATED LO-X DUCT FOR FEEDER CIRCUITS

600 Volts or Less — A.C. or D.C. — Single Phase, Three Phase or 3 Phase 4 Wire

Ventilated LO-X DUCT is designed for power and lighting feeder runs and for welders and other large inductive loads. It materially reduces line drop, operating temperatures and operating costs. Ventilated LO-X DUCT is available in capacities ranging from 600 to 4000 amperes inclusive, for single or three phase, 600 volts or less A.C., or D.C., or three phase, four wire, 600 volts or less A.C.



Cross Section View
Ventilated "LO-X" DUCT

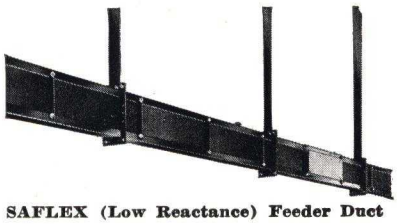
Ventilated LO-X DUCT Standard 10′ Sections

Amp. Cap.	Bus Bar Per Leg	Cat. No.	List Price	Bus Bar Per Leg	Cat. No.	List Price
		3 Pole			3 Ph. 4 Wire	
600	2—¼ x 1″	VXF306	$160.00	2—¼ x 1″	VXF406	$200.00
800	2—¼ x 1½″	VXF308	210.00	2—¼ x 1½″	VXF408	260.00
1000	2—¼ x 2″	VXF310	260.00	2—¼ x 2″	VXF410	310.00
1350	2—¼ x 2 7/16″	VXF313	310.00	2—¼ x 2 7/16″	VXF413	360.00
1600	2—¼ x 3″	VXF316	360.00	2—¼ x 3″	VXF416	410.00

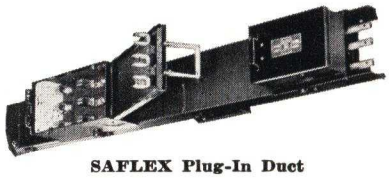
END CLOSERS

3 Pole Cat. No.	3 Ph., 4 W. Cat. No.	List Price
VEC306	VEC406	$10.00
VEC308	VEC408	15.00
VEC310	VEC410	16.00
VEC313	VEC413	17.00
VEC316	VEC416	18.00

SQUARE D SAFLEX FEEDER DUCT AND SAFLEX PLUG-IN DUCT



SAFLEX (Low Reactance) Feeder Duct



SAFLEX Plug-In Duct

SAFLEX FEEDER DUCT

Square D Saflex Feeder Duct is designed to serve as the feeder between transformer banks and main switchboard or as feeder to branch circuits where minimum voltage loss is essential. Because of its low reactance and consequent low voltage drop, it is ideally suited for welder circuits and, as a result, conductor size may be kept at a minimum.

Available in capacities of 1000, 1500, 2000, 3000 and 4000 amperes, 600 volts or less for single phase, 2 and 3 wire and 3 phase, 4 wire services. Larger capacities available.

SAFLEX PLUG-IN DUCT

Square D Saflex Plug-In Duct is the up-to-date method of supplying electrical energy to the many outlets demanded in modern industry.

The demand for electrical energy in today's industrial plant frequently grows beyond the original capacity. Power to run the industrial machine must be had at many locations and must be made available with a minimum loss of time and with maximum flexibility of location and capacity. Original installations of fixed electrical outlets sometimes will not provide efficient accessible capacity for this everchanging and increasing demand.

Square D Saflex Plug-In Duct provides the required accessibility of electrical energy in a most convenient and economical manner and with a wide range of unit and bus capacities. The flexibility of Saflex Duct will provide for easily-made additions in the case of unforseen future requirements.

Saflex Plug-In Duct is available in capacities of 225, 400, 600, 800 and 1000 amperes, in 2 and 3-wire single phase, and 4 wire 3 phase service, for 600 volt or less.

HANGER BRACKETS

The Universal Hanger is designed so that it can be adapted to practically any type of installation. Two hangers are furnished with every 10-ft. section of Plug-in duct.

SAFLEX PLUG-IN UNITS

Fusible Plug-In Units. The point where the plug-in unit is attached to the bus bar is located near the insulator where the bus is most rigidly supported. Twelve plug-in openings are provided in each 10-foot length of duct — 6 on each side. This means that twelve tap-off units can be attached per 10-foot length of Saflex Duct. A hook-type bracket on the top of the unit attaches to the top of the duct. The unit is then swung down into position and the jaws snap onto the bus bars. A single clamp screw on the bottom is then tightened.

SAFLEX PLUG-IN DUCT ENCLOSURE

The standard 10-ft. section of Saflex Duct provides 6 plug-in openings on each side of the duct. Each opening is covered with a small metal door which can be rotated to provide access for attachment of the plug-in unit. These doors are firmly held closed by two screws which are peened to prevent being turned out all the way.

All capacities of Square D Saflex Plug-In Duct are furnished in the same vertical depth of trough and every capacity of plug-in unit is usable for all sizes of duct. This assures maximum flexibility and convertibility.

ACCESSORIES

Elbows, Tees and Crossovers are available to meet any building contour and to facilitate installation. End Closures are available to runs that are dead-ended and conform with N.E.C. requirements Article 364.

Various accessories are available for use with standard Saflex Plug-In Duct and their use facilitates installation under difficult circumstances. The National Electrical Code requires the use of end closures. These are required to terminate a run.

FUSIBLE SWITCH PLUG-IN UNITS (SAFLEX TYPE—HORSEPOWER RATED)

	250-VOLT						575-VOLT					
	2P 2 Fuse		3P 3 Fuse		4P 3 Fuse		2P 2 Fuse		3P 3 Fuse		4P 3 Fuse	
Rating Amp.	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
30A	SD9251	$ 20.00	SD9351	$ 22.00	SD9451	$ 32.00	SD9241	$ 20.00	SD9341	$ 22.00	SD9441	$ 32.00
60A	SD9252	20.00	SD9352	22.00	SD9452	32.00	SD9242	20.00	SD9342	22.00	SD9442	32.00
100A	SD9253	29.00	SD9353	30.00	SD9453	44.00	SD9243	33.00	SD9343	35.00	SD9443	48.00
200A	SD9254	77.00	SD9354	86.00	SD9454	99.00	SD9244	86.00	SD9344	98.00	SD9444	109.00
400A	SD9255	179.00	SD9355	192.00	SD9455	212.00	SD9245	206.00	SD9345	219.00	SD9445	239.00
600A	SD9256	232.00	SD9356	264.00	SD9456	292.00	SD9246	292.00	SD9346	324.00	SD9446	342.00

FUSIBLE SWITCH PLUG-IN UNITS—30 to 200 A. can be plugged in at any opening of a plug-in duct. Horsepower ratings are the same as on saflex panel units. 400 A. and 600 A. can be bolted to the busses of plug-in-duct between any two straight sections or at end of a plug-in duct run, however, when unit is placed at end of run, price does not include an end closure for closing end of run. 400 or 600 A. units can be supplied as main switches by adding suffix letters "LB" to catalog number — no change in price. When ordering 400 or 600 A. units, add suffix letter "E" for end type and "C" for center type.

UNFUSED SWITCH UNITS—When required, use price of 250 V. Fusible switch units for either 250 V. or 575 V. use.

PARANITE WIRE AND CABLE

1947 EDITION OF THE NATIONAL ELECTRICAL CODE — CONDUCTOR INSULATIONS — 600 VOLTS

Trade Name	Type Letter	Maximum Operating Temperature	Insulation	Thickness of Insulation	Outer Covering	Use
Code Rubber	R	60C (140F)	Code Grade Rubber	14-12 ... 2/64 Inch 10 ... 3/64 Inch 8-2 ... 4/64 Inch 1-4/0 ... 5/64 Inch 213-500 ... 6/64 Inch 501-1000 ... 7/64 Inch 1001-2000 ... 8/64 Inch	Moisture-resistant. Flame-retardant. Fibrous covering.	General use.
Heat-resistant Rubber	RH	75C (167F)	Heat-resistant Rubber	14-12 ... 2/64 Inch 10 ... 3/64 Inch 8-2 ... 4/64 Inch 1-4/0 ... 5/64 Inch 213-500 ... 6/64 Inch 501-1000 ... 7/64 Inch 1001-2000 ... 8/64 Inch	Moisture-resistant. Flame-retardant. Fibrous covering.	General use.
Moisture-resistant Rubber	RW	60C (140F)	Moisture-resistant Rubber	14-10 ... 3/64 Inch 8-2 ... 4/64 Inch 1-4/0 ... 5/64 Inch 213-500 ... 6/64 Inch 501-1000 ... 7/64 Inch 1001-2000 ... 8/64 Inch	Moisture-resistant. Flame-retardant. Fibrous covering.	General use and wet locations.
Latex Rubber	RU	60C (140F)	90% Unmilled. Grainless rubber.	14-10 ... 18 Mils 8-6 ... 25 Mils	Moisture-resistant. Flame-retardant. Fibrous covering.	General use.
Thermoplastic	T	60C (140F)	Flame-retardant. Thermoplastic Compound	14-10 ... 2/64 Inch 8 ... 3/64 Inch 6-2 ... 4/64 Inch 1-4/0 ... 5/64 Inch 213-500 ... 6/64 Inch 501-1000 ... 7/64 Inch 1001-2000 ... 8/64 Inch	None.	General use. No. 14 to 4/0 inclusive. Open work No. 14 to 2,000,000 C.M.
Moisture resistant Thermoplastic	TW	60C (140F)	Flame-retardant. Moisture-resistant Thermoplastic	14-10 ... 2/64 Inch 8 ... 3/64 Inch 6-2 ... 4/64 Inch 1-4/0 ... 5/64 Inch 213-500 ... 6/64 Inch 501-1000 ... 7/64 Inch 1001-2000 ... 8/64 Inch	None.	General use and wet locations. No. 14 to 4/0 inclusive. Open work No. 14 to 2,000,000 C.M.
Thermoplastic and Asbestos	TA	90C (194F)	Thermoplastic and Asbestos	Th'pl. / Asb. 14-8 ... 20 Mils / 20 Mils 6-2 ... 30 Mils / 25 Mils 1-4/0 ... 40 Mils / 30 Mils	Flame-retardant, cotton braid.	Switch board wiring only.
Varnished Cambric	V	85C 185F	Varnished Cambric	14-8 ... 3/64 Inch 6-2 ... 4/64 Inch 1-4/0 ... 5/64 Inch 213-500 ... 6/64 Inch 501-1000 ... 7/64 Inch 1001-2000 ... 8/64 Inch	Fibrous covering or lead sheath.	Dry locations only. Smaller than No. 6 by special permission.
Asbestos and Varnished Cambric	AVA and AVL	110C 230F	Impregnated Asbestos and Varnished Cambric	(Dimensions in Mils) VC / AVA Asb. / AVL Asb. 14-8 (solid only) ... 30 / 20 / 25	AVA-asbestos braid	AVA dry locations only.
				1st Asb. / VC / AVA 2nd Asb. / AVL 2nd Asb. 14-8 ... 10 / 30 / 15 / 25 6-2 ... 15 / 30 / 20 / 25 1-4/0 ... 20 / 30 / 30 / 30 213-500 ... 25 / 40 / 40 / 40 501-1000 ... 30 / 40 / 40 / 40 1001-2000 ... 30 / 50 / 50 / 50	AVL-asbestos braid and lead sheath.	AVL wet locations.
Asbestos and Varnished Cambric	AVB	90C 194F	Impregnated Asbestos and Varnished Cambric	VC / Asb. 18-8 (solid only) ... 30 / 20 6-2 (solid only) ... 40 / 30 1-4/0 (solid only) ... 40 / 40	Flame-retardant, cotton braid (switchboard wiring)	
				Asb. / VC / 2nd Asb. 14-8 ... 10 / 30 / 15 6-2 ... 15 / 30 / 20 1-4/0 ... 20 / 30 / 30 213-500 ... 25 / 40 / 40 501-1000 ... 30 / 40 / 40 1001-2000 ... 30 / 50 / 50	Flame-retardant, cotton braid.	Dry locations only.
Asbestos	A	200C 392F	Asbestos	14 ... 30 Mils 12-8 ... 40 Mils	Without asbestos braid.	Dry locations only. Not for general use. In raceways, only for leads to or within apparatus. Limited to 300 V.
Asbestos	AA	200C 392F	Asbestos	14 ... 30 Mils 12-8 ... 30 Mils 6-2 ... 40 Mils 1-4/0 ... 60 Mils	With asbestos braid.	Dry locations only. Open wiring. Not for general use. In raceways, only for leads to or within apparatus. Limited to 300 V.
Asbestos	AI	125C 257F	Impregnated Asbestos	14 ... 30 Mils 12-8 ... 40 Mils	Without asbestos braid.	Dry locations only. Not for general use. In raceways, only for leads to or within apparatus. Limited to 300 V.
Asbestos	AIA	125C 257F	Impregnated Asbestos	Sol. / Str. 14 ... 30 Mils / 30 Mils 12-8 ... 30 Mils / 40 Mils 6-2 ... 40 Mils / 60 Mils 1-4/0 ... 60 Mils / 75 Mils 213-500 ... 90 Mils 501-1000 ... 105 Mils	With asbestos braid.	Dry locations only. Open wiring. Not for general use. In raceways, only for leads to or within apparatus.
Paper		85C 185F	Paper		Lead sheath.	For underground service conductors, or by special permission.
Slow-burning	SB	90C 194F	3 Braids Impregnated Fire-retardant, Cotton Thread	14-10 ... 3/64 Inch 8-2 ... 4/64 Inch 1-4/0 ... 5/64 Inch 213-500 ... 6/64 Inch 501-1000 ... 7/64 Inch 1001-2000 ... 8/64 Inch	Outer cover finished smooth and hard.	Dry locations only. Open wiring; and in raceways where temperatures will exceed those permitted for rubber-covered or varnished cambric-covered conductors.
Slow-burning Weatherproof	SBW	90C 194F	2 Layers Impregnated Cotton Thread	14-10 ... 3/64 Inch 8-2 ... 4/64 Inch 1-4/0 ... 5/64 Inch 213-500 ... 6/64 Inch 501-1000 ... 7/64 Inch 1001-2000 ... 8/64 Inch	Outer fire-retardant coating.	Dry locations only. Open wiring only.
Weatherproof	WP	80C 176F	At least three Impregnated Cotton Braids or Equivalent			Open wiring by special permission where other insulations are not suitable for existing conditions.

The fibrous covering over individual rubber-covered conductors of lead-sheathed or multiple-conductor cable is not required to be flame retardant.
The rubber insulations include those made from natural and synthetic rubber, neoprene and other vulcanizable materials.
Thermoplastic insulation may stiffen at temperatures below minus 10C (14F) and care should be used in its installation at such temperatures

PARANITE WIRE AND CABLE

COMPARISON OF 1940 & 1947 NATIONAL ELECTRICAL CODES

CURRENT CARRYING CAPACITIES, TEMPERATURE CONDITIONS & CONDUIT FILL.
RUBBER AND BRAID INSULATION AND THERMO PLASTIC INSULATION, 600 VOLTS.

ALLOWABLE CURRENT CARRYING CAPACITY OF CONDUCTORS—IN AMPERES

(At Room Temperatures of 30°C - 86°F)

Size AWG or MCM	1940 CODE				★Interim Code Amendment No. 41 Feb. 26, 1942	1947 CODE			
	Single Conductors in Free Air		1, 2 or 3 Conductors in Raceway or Cable			Single Conductors in Free Air		1, 2 or 3 Conductors in Raceway or Cable	
	Type R	Type RH	Types R, RW	Type RH		Types R, RW, T, TW	Type RH	Types R, RW, T, TW	Type RH
14	20	29	15	22	15	20	20	15	15
12	26	37	20	27	20	25	25	20	20
10	35	50	25	37	25	40	40	30	30
8	48	69	35	49	35	55	65	40	45
6	65	94	45	65	50	80	95	55	65
4	87	125	60	86	70	105	125	70	85
2	118	170	80	115	90	140	170	95	115
1	136	196	91	131	100	165	195	110	130
0	160	230	105	151	125	195	230	125	150
00	185	267	120	173	150	225	265	145	175
000	215	310	138	199	175	260	310	165	200
0000	248	358	160	230	225	300	360	195	230
250	280	403	177	255	250	340	405	215	255
300	310	446	198	285	275	375	445	240	285
350	350	504	216	311	300	420	505	260	310
400	380	547	233	336	325	455	545	280	335
500	430	620	365	382	400	515	620	320	380
600	480	691	293	422	450	575	690	355	420
700	525	756	320	461	500	630	755	385	460
750	545	785	330	475	525	655	785	400	475
800	565	815	340	490	550	680	815	410	490
900	605	872	360	519	600	730	870	435	520
1000	650	936	377	543	650	780	935	455	545
1250	740	1066	409	589	750	890	1065	495	590
1500	815	1174	434	625	850	980	1175	520	625
1750	890	1282	451	650	950	1070	1280	545	650
2000	960	1383	463	666	1050	1155	1385	560	665

CORRECTION FACTORS

For Room Temperatures Above 30°C - 86°F

°C	°F					★ See Interim Amendment No. 41 2/26/42				
40	104	.71	.88	.71	.88		.82	.88	.82	.88
45	113	.50	.82	.50	.82		.71	.82	.71	.82
50	122	.00	.75	.00	.75		.58	.75	.58	.75
55	131		.67		.67		.41	.67	.41	.67
60	140		.58		.58		.00	.58	.00	.58
70	158		.35		.35			.35		.35
75	167		.00		.00			.00		.00

CORRECTION FACTORS

For More Than 3 Conductors in Raceway or Cable

4 to 6 Conductors	Allowable current carrying capacity of conductors reduced to 80%
7 to 9 Conductors	Allowable current carrying capacity of conductors reduced to 70%

Note:—Type SN (New Type T) is omitted in the 1940 compilation above—See Next Below.

Interim Amendment No. 46. Approved May 7, 1942.

For the Duration of the War Emergency: Conductors having flame-retardant, moisture-resistant solid synthetic insulation (Type SN) may be used wherever Types R, RP and RH rubber-insulated conductors are acceptable.

★Interim Amendment No. 41. Approved Feb. 26, 1942.

For the duration of the defense emergency and to assist in the conservation of copper and rubber, conductors having Code grade rubber insulation that are not operated continuously with maximum currents may have the allowable current-carrying ratings that were given them in Table 1 of the 1937 edition of this code and the limits of allowable current because of more than three conductors in a raceway (Note 5, page 303, 1940 text), and because of room temperature being over 30C (Table 1, page 301. 1940 text) need not be applied.

NUMBER OF CONDUCTORS IN CONDUIT OR TUBING TYPES R, RW, RH, T, TW 1947 CODE

Size AWG or MCM	CONDUCTORS								
	1	2	3	4	5	6	7	8	9
	CONDUIT OR TUBING SIZE								
14	½	½	½	½	¾	¾	+1	1	1
12	½	½	½	¾	¾	1	1	1	1¼
10	½	¾	¾	¾	1	1	—1	1¼	1¼
8	½	¾	— ¾	1	1¼	1¼	1¼	+1½	1½
6	½	1	—1	1¼	1½	1½	2	2	2
4	—½	1¼	1¼	1½	—1½	2	2	2	2½
2	¾	1¼	—1¼	+2	2	2	2½	2½	2½
1	¾	1½	1½	2	+2½	2½	2½	3	3
0	1	1½	2	2	2½	2½	3	3	3
00	1	2	2	2½	2½	3	3	3	3½
000	1	2	2	2½	3	3	3	3½	3½
0000	1¼	2	2½	+3	3	3	3½	3½	4
250	1¼	2½	2½	3	3	3½	4	4	4½
300	1¼	2½	—2½	3	3½	+4	4	4½	4½
350	1¼	+3	3	3½	3½	4	4½	4½	5
400	+1½	3	3	3½	4	4	4½	5	5
500	1½	3	3	3½	4	4½	5	5	6
600	2	+3½	3½	4	4½	5	6	6	6
700	2	3½	3½	4½	5	5	6	6	
750	2	3½	3½	4½	5	6	6	6	
800	2	3½	4	4½	5	6	6		
900	2	+4	4	+5	6	6	6		
1000	2	4	4	5	6	6			
1250	2½	4½	4½	6	6				
1500	+3	+5	5	6					
1750	3	5	+6	6					
2000	3	+6	6						

NUMBER OF CONDUCTORS IN CONDUIT OR TUBING LEAD COVERED TYPES RL, RHL 1947 CODE

Size AWG or MCM	Single Conductor				Two Conductor				Three Conductor			
	1	2	3	4	1	2	3	4	1	2	3	4
	CONDUIT OR TUBING SIZE											
14	½	¾	¾	1	+¾	1	1	1¼	¾	1¼	1½	1½
12	½	¾	¾	1	¾	1	1¼	1¼	1	1¼	1½	2
10	½	¾	1	1	¾	1¼	1¼	1½	1	1½	2	2
8	½	1	1¼	1½	1	1¼	1½	2	1	2	2	2½
6	¾	1¼	1½	1½	1¼	1½	2	2½	1¼	2½	3	3
4	¾	1¼	1½	1½	1¼	2	2½	2½	1½	3	3	3½
2	1	1¼	1½	2	1¼	2	2½	3	1½	3	3½	4
1	1	1½	2	2	1½	2½	3	3½	2	3½	4	4½
0	1	2	2	2½	2	2½	3	3½	2	4	4½	5
00	1	2	2	2½	2	3	3½	4	2½	4	4½	5
000	1¼	2	2½	2½	2	3	3½	4	2½	4½	4½	6
0000	1¼	2½	2½	3	2½	3	3½	4½	3	5	6	6
250	1¼	2½	3	3					3	6	6	
300	1½	3	3	3½					3½	6	6	
350	1½	3	3	3½					3½	6	6	
400	1½	3	3	3½					3½	6	6	
500	1½	3	3½	4					4	6		
600	2	3½	4	4½								
700	2	4	4	5								
750	2	4	4	5								
800	2	4	4½	5								
900	2½	4	4½	5								
1000	2½	4½	4½	6								
1250	3	5	5	6								
1500	3	5	6	6								
1750	3	6	6									
2000	3½	6	6									

+ One Conduit Size larger than size shown in 1940 National Electrical Code.

— One Conduit Size smaller than size shown in 1940 National Electrical Code.

Bold Face Type—Conduit sizes in bold face type were not shown in 1940 National Electrical Code.

PARANITE BUILDING WIRE

TYPE R—TYPE RH—TYPE RW

600 VOLTS



1 2 3-4

1. Tinned copper conductor. 2. Rubber insulation. 3. Saturated braid. 4. Flame and moisture-resistant finish. Furnished with Code, Type R: Heat-resisting, Type RH; and Type RW, for moist locations.

For use in wiring between walls and ceilings of residential occupancies, concealed knob and tube work, flexible steel or rigid conduit wiring or in metal raceways in all types of buildings or occupancies in accordance with the National Board of Fire Underwriters' regulations or Municipality requirements.

Regularly furnished in black, white, red, blue, green, yellow, brown and orange colors for quick testing and identification.

Marked every foot with size, voltage and type for easy identification.

Solid Single Braid

Size A.W.G.	Dia. of Wire	Rubber Wall 64ths	Approx. Outside Dia.	Approx. Net Wt. M Feet Pounds	Standard Package
14	.064	2	.16	21	500′ Coil
12	.081	2	.18	28	500′ Coil
10	.102	3	.23	49	500′ Coil
8	.128	4	.29	80	500′ Coil
6*	.162	4	.30	115	500′ Coil

TYPE R—TYPE RH—TYPE RW

600 VOLTS



1 2 3 4-5

1. Tinned copper conductor. 2. Rubber insulation. 3. Saturated braid. 4. Saturated braid. 5. Flame and moisture-resistant finish.

Solid Double Braid

Size A.W.G.	Dia. of Wire	Rubber Wall 64ths	Approx. Outside Dia.	Approx. Net Wt. M Feet Pounds	Standard Package
14	.064	2	.19	24	500′ Coil
12	.081	2	.21	31	500′ Coil
10	.102	3	.27	54	500′ Coil
8	.128	4	.33	85	500′ Coil
6	.162	4	.36	120	500′ Coil

*Not listed by Underwriters.

PARANITE BUILDING WIRE

TYPE R—TYPE RH—TYPE RW

600 VOLTS



1 2 3-4

1. Tinned copper conductors. 2. Rubber insulation. 3. Saturated braid. 4. Flame and moisture-resistant finish. Furnished with Code, Type R; Heat-resisting, Type RH; and Type RW for moist locations.

Stranded conductors are used for the same classes of wiring as Solid, being preferred for their additional flexibility and greater ease of handling in confined or cramped spaces or where there are sharp bends in the conduit or raceways into which wire is pulled. Larger sizes are used for electric mains, street railway feeders and power transmission lines.

Regularly furnished in black, white or red colors for quick identification. Other colors can be furnished if required.

Marked every foot with size, voltage and type for easy identification.

Stranded Single Braid

Size A.W.G. or CM	No. and Dia. of Strands	Rubber Wall 64ths	Approx. Outside Dia.	Approx. Net Wt. M Feet Pounds	Standard Package
14	7x.0242	2	.155	33	500′ Coil
12	7x.0305	2	.174	43	500′ Coil
10	7x.0385	3	.230	56	500′ Coil
8	7x.0486	4	.291	88	500′ Coil
6*	7x.0612	4	.330	128	500′ Coil

Stranded Double Braid

14	7x.0242	2	.168	37	500′ Coil
12	7x.0305	2	.188	46	500′ Coil
10	7x.0385	3	.245	63	500′ Coil
8	7x.0486	4	.300	95	500′ Coil
6**	7x.0612	4	.348	142	500′ Coil
4	7x.0772	4	.400	200	500′ Coil
2	7x.0974	4	.461	289	500′ Coil
1	19x.0664	5	.545	378	1000′ Reel
1/0	19x.0745	5	.586	450	1000′ Reel
2/0	19x.0837	5	.632	540	1000′ Reel
3/0	19x.0940	5	.683	670	1000′ Reel
4/0	19x.1055	5	.741	810	1000′ Reel
250M	37x.0822	6	.845	950	1000′ Reel
300M	37x.0900	6	.895	1140	1000′ Reel
350M	37x.0973	6	.970	1310	1000′ Reel
400M	37x.1040	6	1.020	1501	1000′ Reel
500M	37x.1162	6	1.100	1800	1000′ Reel
600M	61x.0992	7	1.210	2211	1000′ Reel
700M	61x.1071	7	1.290	2548	1000′ Reel
750M	61x.1109	7	1.320	2715	1000′ Reel
800M	61x.1145	7	1.355	2882	1000′ Reel
900M	61x.1215	7	1.420	3150	1000′ Reel
1000M	61x.1280	7	1.480	3545	1000′ Reel
1250M	91x.1172	8	1.645	4428	500′ Reel
1500M	91x.1284	8	1.760	5280	500′ Reel
1750M	127x.1174	8	1.900	6109	500′ Reel
2000M	127x.1255	8	1.980	6955	500′ Reel

*Not listed by Underwriters. **Double braid or tape and braid at Manufacturer's option on No. 6 and larger.

PARANITE BUILDING WIRE

TYPE RD—600 VOLTS



1 2 3 5

1. Tinned copper conductors. 2. Rubber insulation. 3-4. Moisture-repellent braid. 5. Flame and moisture-resistant finish.

Made of two solid or stranded soft, tinned copper conductors, each insulated with Code, Type R; Heat-resisting, Type RH; and Type RW for moist locations.

For use in accordance with National Board of Fire Underwriters' regulations for wiring interior circuits in rigid conduit or metal moldings.

Covered with a saturated braid, one black and one white for polarity. The two conductors are laid parallel and then covered with a closely woven braid, thoroughly saturated and finished with a flame- and moisture-resisting compound.

Duplex—Parallel—Solid

Size A.W.G.	No. and Dia. of Strands	Rubber Wall 64ths	Approx. Outside Dia.	Approx. Net Wt. M Feet Pounds	Std. Pkg.
14	1x.064	2	.220x.410	65	500′
12	1x.081	2	.240x.445	90	500′
10	1x.102	3	.270x.495	120	500′
8	1x.128	4	.335x.625	187	500′
6	1x.162	4	.360x.670	265	500′

Duplex—Parallel—Stranded

14	7x.0242	2	.230x.430	71	500′
12	7x.0305	2	.260x.475	95	500′
10	7x.0385	3	.290x.535	127	500′
8	7x.0486	4	.350x.655	198	500′
6	7x.0612	4	.380x.720	288	500′

TYPE RF FIXTURE WIRE—300 VOLTS



1 2 3

1. Tinned copper conductor. 2. Rubber insulation. 3. Cotton braid saturated with moisture-resisting, flame-retarding compound, smoothly finished in black, white, red, green, blue and yellow colors for identification. Stranded conductors increase the flexibility of the wire. The lubricated surface finish of the wire permits easy pulling through conduits and other raceways.

Solid—Type RF Fixture Wire—300 Volts

Size A.W.G.	Ampere Carrying Capacity	No. and Dia. of Strands	Rubber Wall 64ths	Approx. Outside Dia.	Approx. Net Wt. M Feet	Std. Lgth. Feet Spls.	App. Shpg. Wt. Lbs.
18	3	1x40.30	1	.14	12	1000′	60
18	3	1x40.30	2	.16	15	500′	39
16*	6	1x50.82	1	.15	16	1000′	81
16	6	1x50.82	2	.17	20	500′	50

Stranded—Type RF Fixture Wire—300 Volts

18	3	7x15.3	1	.11	9	1000′	63
18	3	7x15.3	2	.13	12	500′	44
16*	6	7x19.2	1	.12	12	1000′	90
16	6	7x19.2	2	.14	16	500′	58

Standard package, 6 spools in carton.

*Not approved.

PARANITE LEAD-COVERED WIRE AND CABLE

TYPE RL—600 VOLTS



1 2 3 4

1. Tinned copper conductors. 2. Rubber insulation. 3. Tape or braid. 4. Lead sheath. Made in single, two or three conductors, solid or stranded, soft-tinned copper, each insulated with Code, Type R; heat-resisting, Type RH; or special rubber compound.

Paranite lead-covered cables are used wherever moisture is encountered and installed in conduit or other raceway or otherwise protected from mechanical injury. Useful for wiring in basements, laundries, dye housing, dairies and in other locations liable to be flooded.

Single Conductor—Solid

Size A.W.G. or MCM	No. and Mil Dia. of Wires	Rubber Wall 64ths	Lead Sheath 64ths	Approx. Outside Dia.	Approx. Net Wt. M Feet Pounds	Std. Length Per Reel
18*	.040	2	2	.195	88	1000′
16*	.051	2	2	.205	98	1000′
14	.064	2	2	.250	133	1000′
12	.081	2	2	.270	150	1000′
10	.102	3	3	.320	248	1000′
8	.128	4	3	.380	319	1000′
6	.162	4	4	.440	484	1000′

Single Conductor—Stranded

14	7x.0242	2	2	.260	139	1000′
12	7x.0305	2	2	.280	158	1000′
10	7x.0385	3	3	.340	261	1000′
8	7x.0486	4	3	.400	337	1000′
6	7x.0612	4	4	.460	513	1000′
4	7x.0772	4	4	.510	616	1000′
3	7x.0867	4	4	.540	685	1000′
2	7x.0974	4	4	.570	762	1000′
1	19x.0664	5	4	.640	905	1000′
1/0	19x.0745	5	4	.680	1021	1000′
2/0	19x.0837	5	4	.725	1160	1000′
3/0	19x.0940	5	4	.780	1330	1000′
4/0	19x.1055	5	4	.835	1536	1000′
250	37x.0822	6	5	.945	1988	1000′
300	37x.0900	6	5	1.000	2232	1000′
350	37x.0973	6	5	1.055	2455	1000′
400	37x.1040	6	5	1.100	2679	1000′
500	37x.1162	6	5	1.185	3116	1000′
600	61x.0992	7	6	1.325	3927	500′
700	61x.1071	7	6	1.400	4361	500′
750	61x.1109	7	6	1.430	4576	500′
800	61x.1145	7	6	1.460	4789	500′
900	61x.1215	7	6	1.530	5265	500′
1000	61x.1280	7	6	1.580	5622	500′
1250	91x.1172	8	7	1.780	7152	500′
1500	91x.1284	8	7	1.900	8175	500′
1750	127x.1174	8	7	2.025	9186	500′
2000	127x.1255	8	7	2.130	10176	500′

*No. 18 and 16 Awg. manufactured for 300 Volts only.

PARANITE DUPLEX-PARALLEL RUBBER AND LEAD CABLE

TYPE RDL—600 VOLTS

Duplex—Solid

Size A.W.G.	No. and Mil Dia. of Wires	Rubber Wall 64ths	Lead Sheath 64ths	Approx. Outside Dia.	Approx. Net Wt. M Feet Pounds	Std. Lgth. Per Reel
18*	.040	2	2	.190x.330	139	1000′
16*	.051	2	2	.200x.350	156	1000′
14	.064	2	2	.250x.440	217	1000′
12	.081	2	3	.300x.510	349	1000′
10	.102	3	3	.320x.550	402	1000′
8	.128	4	3	.380x.660	530	1000′
6	.162	4	4	.470x.810	796	1000′

Duplex—Stranded

14	7x.0243	2	2	.250x.440	226	1000′
12	7x.0302	2	3	.300x.510	366	1000′
10	7x.0385	3	3	.320x.550	415	1000′
8	7x.0486	4	3	.380x.660	673	1000′
6	7x.0612	4	4	.470x.840	847	1000′
4	7x.0772	4	4	.520x.970	1036	1000′
3	7x.0867	4	4	.555x.985	1160	1000′
2	7x.0972	4	4	.580x1.03	1307	1000′
1	19x.0664	5	5	.670x1.19	1802	1000′
1/0	19x.0745	5	5	.720x1.27	2037	1000′
2/0	19x.0837	5	5	.760x1.36	2318	1000′
3/0	19x.0940	5	5	.810x1.47	2658	1000′
4/0	19x.1055	5	5	.870x1.58	3071	500′

TYPE RML—600 VOLTS

Three-Conductor—Solid

18*	.040	2	3	.410	307	1000′
16*	.051	2	3	.440	339	1000′
14	.064	2	3	.560	461	1000′
12	.081	2	4	.600	522	1000′
10	.102	3	4	.640	756	1000′
8	.128	4	4	.770	986	1000′
6	.162	4	5	.860	1185	1000′

Three-Conductor—Stranded

14	7x.0242	2	4	.570	483	1000′
12	7x.0305	2	4	.610	549	1000′
10	7x.0385	3	4	.670	799	1000′
8	7x.0486	4	4	.770	1046	1000′
6	7x.0612	4	5	.920	1264	1000′
4	7x.0772	4	5	1.030	1803	1000′
3	7x.0867	4	5	1.080	1995	1000′
2	7x.0974	4	5	1.160	2263	1000′
1	19x.0664	5	6	1.330	3036	500′
1/0	19x.0745	5	6	1.420	3430	500′
2/0	19x.0837	5	6	1.520	3898	500′
3/0	19x.0940	5	6	1.630	4471	500′
4/0	19x.1055	5	7	1.790	5593	500′
250M	37x.0822	6	7	1.960	6415	500′
300M	37x.0900	6	7	2.080	7197	500′
350M	37x.0973	6	7	2.190	7957	500′
400M	37x.1040	6	8	2.320	9130	500′
500M	37x.1162	6	8	2.500	10550	600′

*For 300 volt service only.

PARANITE-PARASYN WIRE AND CABLE

PARASYN compound was developed especially for use on cable to be installed where operating conditions require a good electrical insulation having long life, and which simultaneously withstands severe exposures which rubber insulation will not withstand. Although it contains no rubber in any form, it has physical properties resembling those of rubber compound, and in addition has many other desirable characteristics.

Properties—PARASYN is recommended for use on cables operating at temperatures up to 140° F. maximum. Under all conditions of installation for which it is recommended, this compound has the following properties:

1. Dielectric strength superior to that of usual grades of rubber insulation.
2. Good insulation resistance.
3. Low specific inductive capacity.
4. Will not ignite, burn, or support combustion.
5. Super-aging compound superior to a rubber compound in resisting ozone, oxygen and sunlight.
6. Highly resistant to moisture, acid, alkalies, chemicals, and mineral, animal and vegetable oils.
7. Tensile strength and elongation similar to values obtained on rubber compounds.
8. Resistance to a reasonable degree of abrasion, tearing, bending and flexing.
9. PARASYN insulation on a cable is firm, dense, and has a smooth exterior finish.
10. PARASYN insulation strips easily and leaves a bright conductor.

Application—PARASYN compound is recommended for single and multiple conductor power and control cable operating at a maximum temperature of 80° C. in air, and such cables may be installed with or without the usual types of protective coverings, as required, in any of the following installations:

1. Direct burial in earth. 2. Installed in ducts or conduits. 3. Submarine installation. 4. Aerial suspension. 5. Open wiring.

Uses—PARASYN insulated or jacketed cables are especially adapted for wiring machine tools, printing presses, battery installations, acid-treating or pickling plants, chemical plants, sewage disposal plants, and other similar installations subject to chemicals or oils.

PARANITE SMALL DIAMETER BUILDING WIRE TYPES T AND TW

600 Volts—60° C. (140° F.)



A small-diameter building wire is offered for use in new work and in rewiring of existing raceways to meet the requirements of the National Electrical Code (1947). Its smaller diameter makes it possible to add additional or larger capacity circuits in existing conduits or raceways.

Size A.W.G.	Strands	Insulation 64ths	Approx. O.D. Inches	Size A.W.G.	Strands	Insulation 64ths	Approx. O.D. Inches
14	Sol.	2	.130	1/0	19	5	.537
12	Sol.	2	.147	2/0	19	5	.582
10	Sol.	2	.168	3/0	19	5	.634
8	Sol.	2	.227	4/0	19	5	.692
8	7	3	.246	250*	37	6	.763
6	7	4	.314	300*	37	6	.819
4	7	4	.363	350*	37	6	.870
2	7	4	.423	400*	37	6	.916
1	19	5	.496	500*	37	6	1.002

*Underwriters' approved for open work only.

PARANITE MACHINE TOOL, CONTROL AND SWITCHBOARD WIRE

PARASYN THERMOPLASTIC INSULATION 600 VOLTS*

PARASYN Machine Tool Wire meets the demand for a cable that can withstand exposure too severe for rubber insulated wires. For wiring machine tools, acid treating plants, chemical plants, and other applications exposing cables to deteriorating influences.

Underwriters' approved for 60° C. where exposed to oil and 80° C. in air operating temperature.



Size A.W.G. or CM	Strands	Heavy Insulation: Wall Thick. 64ths	Heavy Insulation: App. O.D. Inches	Heavy Insulation: App. Net Wt. M Feet	Light Insulation: Wall Thick. 64ths	Light Insulation: Approx. O.D. Inches	Light Insulation: Approx. Net Wt. M Feet
18	Sol.	..	.....	....	2	.103	9
18	7	..	.....	....	2	.110	10
18	16/30	..	.....	....	2	.110	10
16	Sol.	..	.....	....	2	.114	13
16	7	..	.....	....	2	.123	14
16	26/30	..	.....	....	2	.122	13
14	Sol.	3	.158	23	2	.130	20
14	7	3	.168	25	2	.140	22
14	19	3	.168	23	2	.140	20
12	Sol.	3	.175	32	2	.147	28
12	7	3	.186	33	2	.158	30
12	19	3	.184	32	2	.156	28
10	Sol.	3	.196	45	2	.168	41
10	7	3	.210	48	2	.182	44
10	19	3	.222	55	2	.194	51
8	Sol.	4	.254	74	3	.227	69
8	7	4	.272	79	3	.246	75
8	19	4	.278	83	3	.252	80
6	Sol.	..	.....	....	4	.293	112
6	7	..	.....	....	4	.314	119
6	19	..	.....	....	4	.324	124
4	7	..	.....	....	4	.363	176
4	19	..	.....	....	4	.376	188
4	61	..	.....	....	4	.388	200
2	7	..	.....	....	4	.423	263
2	19	..	.....	....	4	.436	276
2	61	..	.....	....	4	.454	301
1	19	..	.....	....	5	.496	339
0	19	..	.....	....	5	.537	416
00	19	..	.....	....	5	.583	514
000	19	..	.....	....	5	.634	633
0000	19	..	.....	....	5	.692	787

*For current carrying capacities, refer to National Electrical Code.

PARANITE NEON SIGN—GAS TUBE, OIL BURNER IGNITION CABLE

TYPE GTO—THERMOPLASTIC



Bare stranded conductor, Polyethylene insulation, Thermoplastic jacket. Smaller diameter for easy installation, less weight, and less space. Smooth finish for easy pull through conduit. Suitable for either outdoor or indoor installations. Jacket is resistant to acids, alkalies, alcohol, gasoline, mineral oils, paraffin waxes, and water.

Size A.W.G.	Stranding	Type	Voltage	Nominal Diameter
14	19/27	GTO-10	10,000	.205
14	19/27	GTO-15	15,000	.245

PARANITE NON-METALLIC SHEATHED CABLES

PARAFLEX WITH TYPE R INSULATED CONDUCTORS

Two Conductor—Parallel—600 Volts*



1 2 3 4 5 6

1. Tinned copper conductors. 2. Code rubber insulation. 3. Composite paper twine and cotton braid — color coded. 4. Folder paper — treated against moisture—wrapped on. 5. Conductors laid parallel with jute ripcord filler in the interstices (tinned ground wire instead of jute for grounded cables). 6. Cotton braid saturated with moisture-resisting, flame-retarding compound smoothly finished—black.

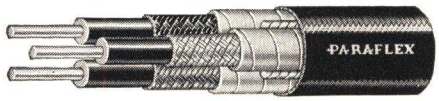
Without Ground

Size A.W.G.	Ampere Carrying Capacity	Stranding No. and Dia. of Wires	Rubber Wall 64ths	Approx. O.S. Dia.	Approx. Net Wt. M Feet	Std. Lgth. Coils
14	15	1x 64.08	2	.355x.575	90	250′
12	20	1x 80.81	2	.367x.597	110	250′
10	25	1x101.9	3	.370x.630	160	250′
8	35	7x 48.6	4	.505x.805	240	125′
6	50	7x 61.2	4	.590x.872	330	125′
4	70	7x 77.2	3	.635x.962	470	125′

With Ground Wire

14	15	1x 64.08	2	.355x.575	100	250′
12	20	1x 80.81	2	.367x.597	120	250′
10	25	1x101.9	3	.370x.630	170	250′
8	35	7x 48.6	4	.505x.825	260	125′
6	50	7x 61.2	4	.590x.872	370	125′
4	70	7x 77.2	4	.635x.962	540	125′

Three Conductor—Round—600 Volts*



1 2 3 4 5 6

Three conductor cables are constructed same as above except that the three conductors are cabled with jute. Paraflex is a durable non-metallic sheathed cable for concealed or open wiring in locations that are reasonably dry and where the cable will not be exposed to mechanical injury.

Without Ground

Size A.W.G.	Ampere Carrying Capacity	Stranding No. and Dia. of Wires	Rubber Wall 64ths	Approx. O.S. Dia.	M Feet Net Wt. Approx.	Coils Lgth. Std.
14	15	1x 64.08	2	.630	135	250′
12	20	1x 80.81	2	.672	165	250′
10	25	1x101.9	3	.685	245	250′
8	35	7x 48.6	4	.900	425	125′
6	50	7x 61.2	4	.947	545	125′
4	70	7x 77.2	4	1.000	620	125′

With Ground Wire

14	15	1x 64.08	2	.630	145	250′
12	20	1x 80.81	2	.672	180	250′
10	25	1x101.9	3	.685	260	250′
8	35	7x 48.6	4	.900	435	125′
6	50	7x 61.2	4	.959	560	125′
4	70	Ex 77.2	4	1.000	700	125′

*Maximum 300 volts to ground or 600 volts between conductors.

T-FLEX is similar to Paraflex except conductors are insulated with Thermoplastic compound and smaller in diameter.

PARANITE DREADNAUGHT CABLES

SINGLE CONDUCTOR—HEAVY DUTY 600 VOLTS



1 2 3 4 5

1. Flexible tinned copper wires. 2. Cotton separator. 3. Rubber insulation. 4. Skeleton braid. 5. Heavy duty Neoprene jacket vulcanized in lead and polished. Dreadnaught single conductor heavy duty cables are designed for use wherever a flexible heavy duty portable cable is required, such as on gathering and mine locomotives, motor leads, etc. Cables with paper separators can be furnished.

Size A.W.G. or MCM	Amp. Cap.	No. and Size of Wires	Approx. O.D. Inches	Approx. Shpg. Wt. Lbs. Per M Feet Coils	500-Ft. Reels	1000-Ft. Reels
18†*	7	42x#34	.18	48	50	72
16†*	10	70x#34	.19	52	54	76
14†	15	84x#33	.25	56	60	78
12†	20	84x#31	.26	62	68	85
10†	25	105x#30	.29	74	72	100
8	45	49x#25	.44	116	172	166
8	45	133x#29	.44	119	175	170
6	60	49x#23	.51	182	286	244
6	60	133x#27	.51	180	284	240
5	78	49x#22	.52	230	340	285
5	78	133x#26	.52	236	340	292
4	85	49x#21	.57	244	350	308
4	85	133x#25	.57	246	350	308
3	95	49x#20	.63	286	416	359
3	95	133x#24	.63	306	436	367
2	110	133x#23	.66	370	500	483
2	110	259x#26	.66	360	500	483
1	130	133x#22	.74	412	545	500
1	130	259x#25	.74	428	548	507
1/0	150	133x#21	.77	500	640	595
1/0	150	259x#24	.77	500	640	595
2/0	175	133x#20	.82	608	745	895
2/0	175	259x#23	.82	608	745	895
3/0	205	133x#19	.87	744	880	1025
3/0	205	259x#22	.87	744	880	1025
4/0	235	133x#18	.93	900	1075	1180
4/0	235	259x#21	.93	900	1075	1180
250	240	259x31.1‡	1.02			
250	240	427x24.2	1.02			
300	275	259x34.0	1.09			
300	275	427x26.5	1.07			
350	300	259x36.8	1.13			
350	300	427x28.6	1.14			
400	325	259x39.3	1.21			
400	325	427x30.6	1.22			
450	370	259x41.7	1.27			
450	370	427x32.5	1.27			
500	400	259x43.9	1.33			
500	400	427x34.2	1.31			
550	425	259x46.1	1.39			
550	425	427x35.9	1.38			
600	450	259x48.1	1.42			
600	450	427x37.5	1.44			
650	475	259x50.1	1.46			
650	475	427x39.0	1.47			
700	500	427x40.5	1.54			
700	500	637x33.1	1.54			
750	525	427x41.9	1.56			

Packed as Specified
Estimated Weights on Request

†Bare copper wires. *300-volt service. ‡Mils.

PARANITE DREADNAUGHT CABLES

TWO CONDUCTOR—HEAVY DUTY 600 VOLTS



1 2 3 4 5 6

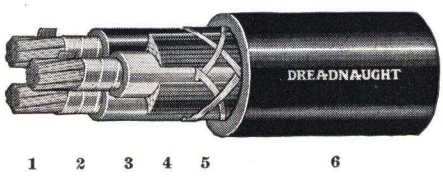
1. Flexible tinned copper wires. 2. Cotton separator. 3. Rubber insulation — color coded for identification. 4. Conductors cabled with jute fillers treated to prevent absorption of moisture. 5. Skeleton braid. 6. Heavy duty Neoprene jacket vulcanized in lead and polished. Dreadnaught power cables are vulcanized in lead under tons of hydraulic pressure which toughens the rubber jacket by closing the pores.

Size A.W.G.	Amp. Cap.	No. and Size of Wires	Approx. O.D. Inches	Approx. Shipg. Wt. Lbs. Per 1000 Feet Coils	500-Ft. Reels	1000-Ft. Reels
18†*	7	42x#34	.390	68	117	124
16†*	10	70x#34	.405	80	188	136
14†	15	84x#33	.530	139	251	207
12†	20	84x#31	.605	178	311	251
10†	25	105x#30	.640	221	356	344
8	40	49x#25	.81	355	520	575
8	40	133x#29	.81	360	530	580
6	50	49x#23	.93	480	650	700
6	50	133x#27	.93	490	660	710
5	60	49x#22	1.01	580	880	885
5	60	133x#26	1.01	610	910	920
4	70	49x#21	1.08	675	1115	1070
4	70	133x#25	1.08	735	1175	1135
3	80	49x#20	1.17	885	1325	1285
3	80	133x#24	1.17	885	1325	1285
2	95	133x#23	1.27	1000	1560	1400
2	95	259x#26	1.27	1000	1560	1400
1	110	133x#22	1.44	1300	2100	1750
1	110	259x#25	1.44	1300	2100	1750
1/0	130	133x#21	1.52	1520	2320	1970
1/0	130	259x#24	1.52	1520	2320	1970
2/0	150	133x#20	1.65	1810	2610	2260
2/0	150	259x#23	1.65	1810	2610	2260
3/0	175	133x#19	1.77	2120	2920	2570
3/0	175	259x#22	1.77	2120	2920	2570
4/0	200	133x#18	1.92	2630	3530	3285
4/0	200	259x#21	1.92	2630	3530	3285

†Bare copper wires. *300-volt service.

PARANITE DREADNAUGHT CABLES

THREE CONDUCTOR—HEAVY DUTY
600 VOLTS



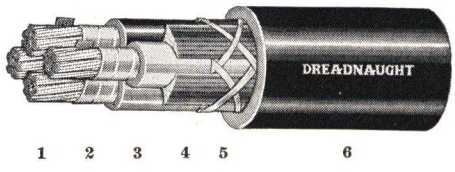
1. Flexible tinned copper wires. 2. Cotton separator. 3. Rubber insulataion — color coded for identification. 4. Conductors cabled with jute fillers treated to prevent absorption of moisture. 5. Skeleton braid. 6. Heavy duty Neoprene jacket vulcanized in lead and polished.

Size A.W.G.	Amp. Cap.	No. and Size of Wires	Approx. O.D. Inches	Approx. Shpg. Wt. Per 1000 Ft. Lbs. Coils	500-Ft. Reels	1000-Ft. Reels
18†*	7	42x#34	.405	88	192	140
16†*	10	70x#34	.430	108	212	168
14†	15	84x#33	.560	184	304	244
12†	20	84x#31	.635	241	361	339
10†	25	105x†30	.690	333	453	543
8	35	49x#25	.91	485	650	700
8	35	133x#29	.91	500	670	720
6	50	49x#23	1.01	700	1140	1100
6	50	133x#27	1.01	710	1150	1110
5	60	49x#22	1.10	805	1245	1200
5	60	133x#26	1.10	820	1260	1210
4	65	49x#21	1.17	910	1350	1300
4	65	133x#25	1.17	935	1375	1335
3	75	49x#20	1.24	1120	1680	1520
3	75	133x#24	1.24	1120	1680	1520
2	90	133x#23	1.34	1345	1900	1745
2	90	259x#26	1.34	1345	1900	1745
1	100	133x#22	1.51	1700	2500	2150
1	100	259x#25	1.51	1700	2500	2150
1/0	120	133x#21	1.65	1990	2790	2440
1/0	120	259x#24	1.65	1990	2790	2440
2/0	135	133x#20	1.75	2385	3185	2820
2/0	135	259x#23	1.75	2385	3185	2820
3/0	155	133x#19	1.89	2840	3740	3490
3/0	155	259x#22	1.89	2840	3740	3490
4/0	180	133x#18	2.04	3480	4380	4130
4/0	180	259x#21	2.04	3480	4380	4130

†Bare copper wires. *300-volt service.

PARANITE DREADNAUGHT CABLES

FOUR CONDUCTOR—HEAVY DUTY
600 VOLTS



1. Flexible tinned copper wires. 2. Cotton separator. 3. Rubber insulation — color coded for identification. 4. Conductors cabled with jute fillers treated to prevent absorption of moisture. 5. Skeleton braid. 6. Heavy duty Neoprene jacket vulcanized in lead and polished.

Size A.W.G.	Amp. Cap.	No. and Size of Wires	Approx. O.D. Inches	Approx. Shpg. Wt. Per 1000 Ft. Lbs. Coils	500-Ft. Reels	1000-Ft. Reels
18†*	7	42x#34	.435	123	227	183
16†*	10	70x#34	.485	171	275	231
14†	15	84x#33	.605	256	376	364
12†	20	84x#31	.665	334	454	442
10†	25	105x#30	.745	442	618	708
8	30	49x#25	.99	610	1050	1000
8	30	133x#29	.99	650	1090	1050
6	40	49x#23	1.10	800	1240	1200
6	40	133x#27	1.10	860	1300	1250
5	47	49x#22	1.19	950	1390	1350
5	47	133x#26	1.19	1050	1550	1450
4	55	49x#21	1.27	1100	1540	1500
4	55	133x#25	1.27	1240	1800	1640
3	65	49x#20	1.34	1475	2275	1925
3	65	133x#24	1.34	1475	2275	1925
2	75	133x#23	1.48	1740	2540	2190
2	75	259x#26	1.48	1740	2540	2190
1	85	133x#22	1.68	2160	2960	2610
1	85	259x#25	1.68	2160	2960	2610
1/0	100	133x#21	1.79	2540	3340	2990
1/0	100	259x#24	1.79	2540	3340	2990
2/0	115	133x#20	1.93	2985	3885	3630
2/0	115	259x#23	1.93	2985	3885	3630
3/0	130	133x#19	2.07	3695	4600	4345
3/0	130	259x#22	2.07	3695	4600	4345
4/0	150	133x#18	2.26	4510	5460	5160
4/0	150	259x#21	2.26	4510	5460	5160

†Bare copper wires. *300-volt service.

PARANITE DREADNAUGHT CORDS

SINGLE CONDUCTOR—TYPE S



1 2 3 4 5

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation. 4. Skeleton braid. 5. Heavy duty Neoprene jacket, vulcanized in lead and polished. Dreadnaught rubber cords are mold-cured so as to provide a smooth, dense, hard-wearing surface for use where severe conditions are encountered.

Size AWG	Amp. Cap.	No. and Size of Wires	App. O.D. In.	App. Net Wt. Lbs.	Approx. Shpg. Wt. Lbs. Per M Feet 250′ Coils	250′ Spools	500′ Coils	500′ Rls.	1000′ Rls.
18	7	42x#34	.183	44	.....	.....	48	.....	97
16	10	70x#34	.193	45	.....	.....	49	.....	99
14	15	84x#33	.248	47	.....	.....	52	.....	105
12	20	84x#31	.263	51	.....	.....	57	.....	107
10	25	105x#30	.288	75	.....	.....	82	.....	132

TWO CONDUCTOR—TYPE S



1 2 3 4 5 6

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation — color coded. 4. Conductors cabled with jute. 5. Skeleton braid. 6. Heavy duty Neoprene jacket, vulcanized in lead and polished. Dreadnaught all rubber cords are recommended for use wherever moisture is encountered.

Size AWG	Amp. Cap.	No. and Size of Wires	App. O.D. In.	App. Net Wt. Lbs.	Approx. Shpg. Wt. Lbs. Per M Feet 250′ Coils	250′ Spools	500′ Coils	500′ Rls.	1000′ Rls.
18	7	42x#34	.390	87	.....	92	72	177	124
16	10	70x#34	.405	99	.....	104	84	188	136
14	15	84x#33	.530	144	147	.....	147	251	207
12	20	84x#31	.605	187	192	.....	191	311	251
10	25	105x#30	.640	234	237	.....	236	356	344

THREE CONDUCTOR—TYPE S



1 2 3 4 5 6

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation — color coded. 4. Conductors cabled with jute. 5. Skeleton braid. 6. Jacketed with tough heavy duty Neoprene vulcanized in lead and polished. Dreadnaught cords are excellent for use in industrial plants.

Size AWG	Amp. Cap.	No. and Size of Wires	App. O.D. In.	App. Net Wt. Lbs.	Approx. Shpg. Wt. Lbs. Per M Feet 250′ Coils	250′ Spools	500′ Coils	500′ Rls.	1000′ Rls.
18	7	42x#34	.405	87	90	108	88	192	140
16	10	70x#34	.430	100	111	128	108	212	168
14	15	84x#33	.560	186	186	.....	184	304	244
12	20	84x#31	.635	238	242	.....	241	361	339
10	25	105x#30	.690	330	334	.....	333	453	543

PARANITE DREADNAUGHT CORDS

FOUR CONDUCTOR—TYPE S



1 2 3 4 5 6

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation — color coded. 4. Conductors cabled with jute. 5. Skeleton braid. 6. Neoprene jacket, vulcanized in lead and polished. Dreadnaught cords guarantee the utmost durability, safe-handling and uninterrupted service.

Size AWG	Amp. Cap.	No. and Size of Wires	App. O.D. In.	App. Net Wt. Lbs.	Approx. Shpg. Wt. Lbs. Per M Feet 250′ Coils	250′ Spools	500′ Coils	500′ Rls.	1000′ Rls.
18	7	42x#34	.435	120	124	143	123	227	183
16	10	70x#34	.485	168	172	191	171	275	231
14	15	84x#33	.605	254	258	.....	256	376	364
12	20	84x#31	.665	330	336	.....	334	454	442
10	25	105x#30	.745	435	444	.....	442	618	708

TWO CONDUCTOR—TYPE SJ



1 2 3 4 5 6

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation — color-coded. 4. Conductors cabled with jute. 5. Skeleton braid. 6. Neoprene jacket, vulcanized in lead and polished. Dreadnaught light duty cords are for vacuum cleaners, washing machines, small motors, etc.

Size AWG	Amp. Cap.	No. and Size of Wires	App. O.D. In.	App. Net Wt. Lbs.	Approx. Shpg. Wt. Lbs. Per M Feet 250′ Coils	250′ Spools	500′ Coils	500′ Rls.	1000′ Rls.
18	7	42x#34	.300	45	47	55	47	.....	.....
16	10	70x#34	.325	62	65	75	65	.....	.....

THREE AND FOUR CONDUCTOR—TYPE SJ



1 2 3 4 5 6

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation. 4. Conductors cabled with jute. 5. Skeleton braid. 6. Jacketed with tough Neoprene vulcanized in lead and polished. Dreadnaught light duty cords may be used with a good margin of safety.

Three Conductor

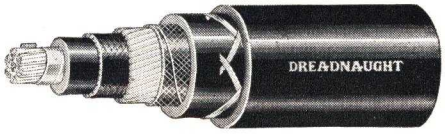
Size AWG	Amp. Cap.	No. and Size of Wires	App. O.D. In.	App. Net Wt. Lbs.	Approx. Shpg. Wt. Lbs. Per M Feet 250′ Coils	250′ Spools	500′ Coils	500′ Rls.	1000′ Rls.
18	7	42x#34	.330	70	74	85	74	.....	.....
16	10	70x#34	.355	94	98	110	98	.....	.....

Four Conductor

18	7	42x#34	.360	85	90	100	90	.....	.....
16	10	70x#34	.390	115	120	130	120	.....	.....

PARANITE DREADNAUGHT CABLES

TWO CONDUCTOR—CONCENTRIC—MINING MACHINE CABLES



1 2 3 4 5 6 7 8

1. Tinned copper wires. 2. Separator. 3. Rubber insulation. 4. Cotton braid or rubber-filled tape. 5. Tinned copper wires — concentrically laid. 6. Rubber insulation. 7. Skeleton braid. 8. Heavy duty Neoprene jacket vulcanized in lead and polished. Dreadnaught mining cable is recommended for use on movable mining machine equipment such as loaders, cutters, conveyors, drills, locomotives, etc.

Size AWG	Amp. Cap.	No. and Size of Wires Inner Conductor	Outer Conductor	App. O.D. In.	Approx. Net Wt. M Feet	Approx. Shpg. Wt. Lbs. Per M Feet 250′ Coils	500′ Reels	1000′ Reels
8	35	49x#25	32x#23	.635	335	.....	.....	.....
6	50	49x#23	32x#21	.770	370	374	470	425
6	50	133x#27	32x#21	.770	370	374	470	425
5	60	49x#22	32x#20	.810	465	469	575	515
4	70	49x#21	32x#19	.840	495	499	595	550
4	70	133x#25	32x#19	.840	495	499	595	550
3	80	133x#24	32x#18	.880	622	626	720	675
3	80	259x#27	32x#18	.880	622	626	720	675
2	90	133x#23	26x#16	.940	700	706	800	755
2	90	259x#26	26x#16	.940	700	706	800	755
1	100	133x#22	26x#15	1.060	883	890	890	740
1	100	259x#25	26x#15	1.060	883	890	890	740

HEAVY DUTY WELDING MACHINE CABLE



1 2 3 4 5

1. Flexible bare copper wires. 2. Cotton separator. 3. Rubber insulation (600 volts). 4. Skeleton braid. 5. Heavy duty Neoprene jacket vulcanized in lead and polished. Dreadnaught welding cable is used on stationary or movable welding machines for the supply of current from the machine to the electrode and requires extreme flexibility, light weight, moisture-proof qualities and resistance to abrasion.

Size A.W.G.	Stranding No. & Size of Wires	Approx. O.D. Inches	Approx. Net Wt. M Feet	Approx. Shpg. Wt. Per M Feet 500′ Coils	500′ Reels	1000′ Reels
5	833x#34	.520	170	175	260	220
4	1078x#34	.562	210	212	318	292
3	1323x#34	.625	245	250	356	330
2	1666x#34	.675	292	296	398	354
1	2107x#34	.720	375	380	476	432
1/0	2646x#34	.760	455	460	572	558
2/0	3332x#34	.820	564	568	685	668
3/0	4214x#34	.880	725	730	860	950
4/0	5292x#34	.910	880	884	1000	1088

Welding Machine Cable Sizes

Size A.W.G.	Length of Cable in Feet — Up to 50 Feet	50 to 100 Feet	100 to 250 Feet
4	75 Amps.	75 Amps.	75 Amps.
2	100–200 Amps.	100 Amps.	100 Amps.
1		200 Amps.	
1/0	300 Amps.		
2/0	400 Amps.	300 Amps.	200 Amps.
3/0	600 Amps.	400 Amps.	
4/0		600 Amps.	300 Amps.

PARANITE DREADNAUGHT CABLES

BARE WELDER CABLES



Flexible bare copper wires. Skeleton cotton braid. Paranite bare welder cables are developed for the automotive and metal trades as heavy duty flexible leads for connecting moving parts of arc, spot, stitch and flash welding machines. They are widely used as terminal connections on jaws of electric welding machines. Paranite welder cables are extremely flexible and for use on high amperages.

Size AWG	Area Circular Mils	No. and Size of Wires	App. O.D. Inches	Avg. Net Wt. M Feet	Std. Lgth. Reel	Approx. Shpg. Pkg. Reel	Approx. Shpg. Wt. Lbs.
2	66,370	1666x#34	.292	205	1000′	E	255
1	83,690	2107x#34	.232	258	1000′	E	308
1/0	105,500	2660x#34	.373	326	1000′	E	356
2/0	133,100	3325x#34	.418	411	1000′	E	461
3/0	167,800	4256x#34	.470	518	1000′	E	568
4/0	211,600	5320x#34	.528	653	1000′	D	748
	250,000	6316x#34	.575	773	1000′	D	868
	300,000	7511x#34	.630	926	1000′	C	1057
	400,000	10101x#34	.728	1240	1000′	C	1371
	500,000	12691x#34	.813	1540	1000′	B	1711
	600,000	14945x#34	.893	1850	1000′	B	2021
	750,000	17688x#34	.998	2320	1000′	A	2557
	1,000,000	25193x#34	1.152	3090	500′	A	3327
	2,250,000	31213x#34	1.289	3860	500′	A	4097

VULCAN (PARANITE) WELDING MACHINE CABLE

SINGLE BELT—600 VOLTS



Single conductor, extremely flexible, bare copper, separator, tough durable jacket overall.

Size A.W.G.	No. and Size of Wires	Approx. O.D. Inches	Wt. Lbs. Per M Feet	Carrying Capacity Amperes	Volts Drop per M Feet
6	686x#34	.400	165	75	3.58
4	1078x#34	.495	265	100	3.18
3	1323x#34	.500	290	150	3.70
2	1666x#34	.560	350	200	3.92
1	2107x#34	.625	445	250	3.88
1/0	2646x#34	.675	525	300	3.72
2/0	3332x#34	.750	635	375	3.68
3/0	4214x#34	.815	765	450	3.51
4/0	5292x#34	.900	945	500	3.41

The above values for carrying capacity are based on a copper temperature of 60° C. and an ambient temperature of 40° C. and yield load factors of from approximately 32 per cent for the No. 2 Awg. cable to approximately 23 per cent for the No. 3/0 Awg. cable and higher for the smaller sizes. The sizes of cables generally used range from No. 2 Awg. to No. 3/0 Awg. In actual service the load factor may be much higher than indicated without over-heating the cable as the ambient temperature will generally be substantially lower than 40° C.

PARANITE SERVICE ENTRANCE CABLE

TWO CONDUCTOR—TYPE SE STYLE U UNARMORED



1 2 3 4 5 6 7

1. Tinned copper conductors. 2. High grade rubber insulation. 3. Cotton braid —saturated. 4. Tinned copper wires wrapped on helically. 5 and 6. Rubber-filled tapes. 7. Cotton braid saturated with moisture-resisting, flame-retarding compound, smoothly finished to take house paint readily and dusted. For service from pole to house, down to meter as both a drop and service entrance cable. Without conduit.

Rubber wall insulated conductor, 4/64 inch.

Size AWG Stranded Insulated Conductor	Size AWG Concentric Neut.	Amp. Carrying Cap.	Stranding Insulated Conductor	Approx. Outside Diam.	Standard Lgth. Coil	App. Shpg. Wt. Lbs.
12 Sol.	12	20	1x 80.81	.361	250′	22
10 Sol.	10	25	1x101.9	.388	250′	27
8*	10	35	7x 48.6	.469	250′	42
8	8	35	7x 48.6	.475	250′	45
6	8	50	7x 61.2	.519	250′	57
6	6	50	7x 61.2	.537	250′	66
4	6	70	7x 77.2	.585	200′	65
4	4	70	7x 77.2	.601	200′	77
2	4	90	7x 97.4	.661	150′	74
2	2	90	7x 97.4	.683	150′	85

*Not approved.

THREE CONDUCTOR—TYPE SE STYLE U UNARMORED



1 2 3 4 5 6 7

Same construction as above except that the two insulated conductors — color coded — are laid parallel. In Paranite service entrance cables the use of the bare neutral conductor over the insulated conductors not only reduces the cost but because of the difficulty of tapping the cable, prevents the unauthorized use of current. Continuous cables from pole to meter prevents further losses. Tape acts as an additional moisture seal.

Rubber wall insulated conductor, 4/64 inch.

Size AWG Stranded Insulated Conductor	Size AWG Concentric Neut.	Amp. Carrying Cap.	Stranding Insulated Conductor	Approx. Outside Diam.	Standard Lgth. Coil	App. Shpg. Wt. Lbs.
12 Sol.	12	20	1x 80.81	.393x .525	250′	36
10 Sol.	10	25	1x101.9	.432x .585	250′	53
8*	10	35	7x 48.6	.507x .735	250′	70
8	8	35	7x 48.6	.512x .740	250′	75
6	8	50	7x 61.2	.556x .828	200′	76
6	6	50	7x 61.2	.569x .841	150′	63
4	6	70	7x 77.2	.617x .937	150′	81
4	4	70	7x 77.2	.625x .945	150′	87
2	4	90	7x 97.4	.685x1.06	100′	79
2	2	90	7x 97.4	.703x1.08	100′	90

*Not approved.

PARANITE SERVICE ENTRANCE CABLE

TWO CONDUCTOR—TYPE SE STYLE A ARMORED



1 2 3 4 5 6 7 8

1. Tinned copper conductor. 2. High grade rubber insulation. 3. Cotton braid — saturated. 4. Tinned copper wires wrapped on helically. 5. Galvanized steel armor. 6 and 7. Rubber-filled tapes. 8. Cotton braid saturated with moisture-resisting, flame-retarding compound, smoothly finished to take house paint readily and dusted. Entrance cables with steel armor used from drop leads to entrance switch.

Rubber wall insulated conductor—4/64 inch.

Size AWG Stranded Insulated Conductor	Size AWG Concentric Neut.	Amp. Carrying Cap.	Stranding Insulated Conductor	Approx. Outside Diam.	Standard Lgth. Coil	App. Shpg. Wt. Lbs.
12 Sol.	12	20	1x 80.81	.39	250′	25
10 Sol.	10	25	1x101.9	.420	250′	32
8*	10	35	7x 48.6	.50	250′	57
8	8	35	7x 48.6	.505	250′	63
6	8	50	7x 61.2	.549	250′	76
6	6	50	7x 61.2	.567	250′	85
4	6	70	7x 77.2	.615	200′	82
4	4	70	7x 77.2	.631	200′	93
2	4	90	7x 97.4	.691	150′	87
2	2	90	7x 97.4	.713	150′	98

*Not approved.

THREE CONDUCTOR—TYPE SE STYLE A ARMORED



1 2 3 4 5 6 7 8

Paranite three-conductor service entrance cables are constructed same as above except that two color-coded conductors are laid parallel with the third conductor wrapped on helically forming a flat finished cable. The use of service entrance cables effect economies of first cost as well as low installation and maintenance costs as they eliminate the use of rigid conduit for service entrance installations.

Rubber wall insulated conductor—4/64 inch.

Size AWG Stranded Insulated Conductor	Size AWG Concentric Neut.	Amp. Carrying Cap.	Stranding Insulated Conductor	Approx. Outside Diam.	Standard Lgth. Coil	App. Shpg. Wt. Lbs.
12 Sol.	12	20	1x 80.81	.429x .546	250′	49
10 Sol.	10	25	1x101.9	.462x .600	250′	63
8*	10	35	7x 48.6	.537x .750	250′	93
8	8	35	7x 48.6	.542x .755	250′	101
6	8	50	7x 61.2	.586x .843	200′	95
6	6	50	7x 61.2	.599x .856	150′	80
4	6	70	7x 77.2	.647x .952	150′	99
4	4	70	7x 77.2	.655x .960	150′	108
2	4	90	7x 97.4	.715x1.08	100′	92
2	2	90	7x 97.4	.733x1.10	100′	104

*Not approved.

PARANITE SERVICE DROP CABLE

TWO CONDUCTOR—TYPE SD



1 2 3 4 5 6

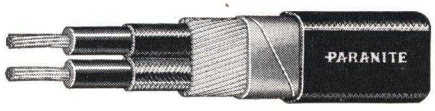
1. Tinned copper conductor. 2. High grade rubber insulation. 3. Cotton braid — saturated. 4. Tinned copper wires wrapped on helically. 5 Treated paper tape. 6. Cotton braid saturated with moisture-resisting, flame-retarding compound smoothly finished — black. Paranite concentric neutral tamper-proof drop cable combines the advantages of small dimensions, light weight, efficiency and economy.

Rubber wall insulated conductor—4/64 inch.

Size AWG Stranded Insulated Conductor	Size AWG Concentric Neut.	Amp. Carrying Cap.	Stranding Insulated Conductor	Approx. Outside Diam.	Standard Lgth. Coil	App. Shpg. Wt. Lbs.
12 Sol.	12	20	1x 80.81	.313	250′	27
10 Sol.	10	25	1x101.9	.340	250′	42
8*	10	35	7x 48.6	.421	250′	43
8	8	35	7x 48.6	.427	250′	45
6	8	50	7x 61.2	.471	150′	32
6	6	50	7x 61.2	.489	150′	37
4	6	70	7x 77.2	.537	150′	47
4	4	70	7x 77.2	.553	150′	54
2	4	90	7x 97.4	.613	100′	47
2	2	90	7x 97.4	.635	100′	56

*Not approved.

THREE CONDUCTOR—TYPE SD



1 2 3 4 5 6

Same construction as above except that the two color-coded insulated conductors are laid parallel. Paranite drop cable installation, carries the entrance circuit from the pole to the house where it is joined to the entrance cable or in some localities it may be continued in an unbroken line to service entrance switch or meter when properly installed in rigid conduit. Concentric neutral cables are hard to tap.

Rubber wall insulated conductors—4/64 inch.

Size AWG Stranded Insulated Conductor	Size AWG Concentric Neut.	Amp. Carrying Cap.	Stranding Insulated Conductor	Approx. Outside Diam.	Standard Lgth. Coil	App. Shpg. Wt. Lbs.
12 Sol.	12	20	1x80.81	.345x .477	250′	47
10 Sol.	10	25	7x38.5	.398x .565	250′	57
8*	10	35	7x48.6	.459x .689	250′	68
8	8	35	7x48.6	.464x .692	250′	73
6	8	50	7x61.2	.508x .780	150′	56
6	6	50	7x61.2	.521x .793	150′	61
4	6	70	7x77.2	.569x .889	150′	80
4	4	70	7x77.2	.577x .897	150′	89
2	4	90	7x97.4	.637x1.01	100′	78
2	2	90	7x97.4	.655x1.03	100′	88

*Not approved.

VULCAN (PARANITE) CORDS

TWO CONDUCTOR—TYPE S



1 2 3 4 5 6

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation — color-coded. 4. Conductors cabled with cotton fillers. 5. Cotton braid. 6. 40 per cent rubber jacket. Vulcan cords are for use on all portable electric machines, small motors, where subject to hard usage and dampness. Length of coil, 250 feet.

Size A.W.G.	Amp. Cap.	No. & Size of Wires	App. O.D. Inches	App. Net Wt. M Feet	Std. Pkg. Coils	Shpg. Wt.Lbs. Per M Feet
18	7	41x#34	.390	62	3	48
16	10	65x#34	.405	90	3	68
14	15	41x#30	.530	140	1	38
12	20	65x#30	.605	190	1	47
10	25	103x#30	.640	240	1	60

THREE CONDUCTOR—TYPE S



1 2 3 4 5 6

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation — color coded. 4. Conductors cabled with cotton fillers. 5. Cotton braid. 6. 40 per cent rubber jacket. Vulcan three-conductor cords are for use on all portable electric machines, that require the additional safety of a third grounding conductor. Length of coil, 250 feet.

A.W.G. Size	Cap. Amp.	of Wires No. & Size	App. Inches O.D.	App. M Feet Net Wt.	Std. Coils Pkg.	Shpg. Wt.Lbs. M Feet Per
18	7	41x#34	.405	84	3	63
16	10	65x#34	.430	114	3	78
14	15	41x#30	.560	179	1	45
12	20	65x#30	.635	229	1	58
10	25	103x#30	.690	309	1	78

TWO CONDUCTOR—TYPE SJ



1 2 3 4 5 6

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation — color-coded. 4. Conductors cabled with cotton fillers. 5. Cotton braid. 6. 40 per cent rubber jacket.

Vulcan-Lite duty cords are not listed, but widely used on small electric vacuum cleaners and electrical household appliances.

Vulcan-Junior cords are finished with a smooth rubber wall — no braids or covers to pick up dirt, lint, etc. For damp locations.

Standard package: 250-ft. coils.

Vulcan Type "SV"

Size A.W.G.	Amp. Cap.	No. & Size of Wires	App. O.D. Inches	App. Net Wt. M Feet	Std. Pkg. Coils	Shpg. Wt.Lbs. Per M Feet
18	7	41x#34	.250	36	5	46
Vulcan-Junior Cords—Type SJ						
18	7	41x#34	.300	49	3	37
18	7	16x#30	.300	49	3	37
16	10	65x#34	.325	60	3	45
16	10	26x#30	.325	61	3	46

VULCAN (PARANITE) CORDS

THREE CONDUCTOR—TYPE SJ



1 2 3 4 5 6

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation — color coded. 4. Conductors cabled with cotton fillers. 5. Cotton braid. 6. 40 per cent rubber jacket. Vulcan-Junior all-rubber portable cord has the same general construction as for heavy duty except for thinner rubber wall. Length coils, 250 feet.

Size A.W.G.	Amp. Cap.	No. and Size of Wires	Approx. O.D. Inches	Approx. Net Wt. M Feet	Shpg. Wt.Lbs. M Feet	Std. Pkg. Coils
18	7	16x#30	.330	68	51	3
18	7	41x#34	.330	68	51	3
16	10	26x#30	.355	85	67	3
16	10	65x#34	.355	85	67	3

HOUSEHOLD CORD—TWO CONDUCTOR



1 2 3 4

1. Flexible copper conductors. 2. Separator. 3. Rubber insulation on conductors — color-coded. 4. 30 per cent rubber jacket. Paranite all-rubber portable cords without filler are not listed, but widely used on portable electrical appliances and equipment — moderate conditions. Length coils, 250 feet.

Size A.W.G.	Amp. Cap.	No. and Size of Wires	Approx. O.D. Inches	Approx. Net Wt. M Feet	Shpg. Wt.Lbs. M Feet	Std. Pkg. Coils
18	7	16x#30	.230	36	5	46
18	7	16x#30	.275	45	5	57
18	7	16x#30	.305	54	3	41
18	7	16x#30	.395	86	3	64
16	10	26x#30	.380	86	3	64
16	10	26x#30	.410	104	3	78

PARANITE BUS-DUCT POWER CABLE

Three rubber insulated stranded tinned copper conductors and one stranded tinned uninsulated ground conductor. Rubber insulated with code type R grade for 600 volts, color coded flame and moisture resistant braids. The four conductor cabled with jute fillers, covered with saturated fibrous dam, and overall a heavy loom weave with flame and moisture resistant finish.

Used to connect motor operated machines with overhead Bus systems for power supply. Bus-Duct cable can be easily connected at any point with proper fittings which are made by several manufacturers.

Size A.W.G.	Approx. O.D.	Approx. Shpg. Wt. M Feet	Size A.W.G.	Approx. O.D.	Approx. Shpg. Wt. M Feet
14	.620	360	6	1.07	935
12	.660	405	4	1.21	1335
10	.740	425	3	1.25	1635
8	.900	600	2	1.30	1990

PARANITE FLEXIBLE CORDS

TYPE HPD HEATER CORD—BRAIDED



1 2 3 4 5

1. Flexible copper conductors. 2. Separator. 3. Unvulcanized rubber insulation. 4. Asbestos coverings. 5. Conductors are twisted and braided together with a soft or glazed cotton or rayon braid overall. 250-ft. coils.

Size A.W.G.	No. and Size of Wires	Rubber Wall 64ths	Approx. O.D. Inches	Approx. Net Wt. M Feet	Std. Pkg. Coils	Shpg. Wt.Lbs. M Feet
Extra Flexible—3000 Cycles						
18	41x#34	1	.290	27	5	36
16	65x#34	1	.315	35	5	45
14	104x#34	1	.345	48	3	36
12	165x#34	1	.380	63	3	48
Long Wear Cotton Twine—3000 Cycles						
18	41x#34	1	.335	31	5	38
16	65x#34	1	.360	42	5	48
Special Flexible—10,000 Cycles						
18	65x#36	1	.310	30	5	40
16	104x#36	1	.335	38	5	53

TYPE P REINFORCED FLEXIBLE LAMP CORD



This cord is manufactured in soft black cotton finish. For pendant use or portable use in dry places. The individual conductors are insulated with seamless code standard compound and covered with a strong cotton braid. They are then twisted together and a rubber jacket is applied. Over this is closely braided a fine glazed or soft cotton yarn.

Size A.W.G.	Construction	Insulation Thickness Inches	Approx. Overall Diam. Inches	Net Wt. Lb. Per 1000 Ft.	Standard Put-up Feet	Shipping Container Feet
18	16x.010	1/64	.245	35	†250	‡1000
18	16x.010	1/32	.350	54	†250	‡1000
16	26x.010	1/32	.380	71	†250	‡1000
14	41x.010	3/64	.450	110	†250	* 500

†Coils. ‡Cartons. *Papered.

TYPE PWP MOISTURE-PROOF REINFORCED CORD



For pendant or portable use in damp places.

Size A.W.G.	Construction	Insulation Thickness Inches	Approx. Overall Diam. Inches	Net Wt. Lb. Per 1000 Ft.	Standard Put-up Feet	Shipping Container Feet
18	16/#30	1/64	.280	46	†250	‡1000
18	16/#30	1/32	.344	67	†250	‡1000
16	26/#30	1/32	.370	80	†250	‡1000
14	41/#31	3/64	.460	129	†250	* 500

†Coils. ‡Cartons. *Papered.

PARANITE FLEXIBLE CORDS

PARALLEL WITH INNER BRAID—TYPE PO



1 2 3 4 5

1. Flexible copper conductors. 2. Separator. 3. Code rubber insulation. 4. Cotton braid — coded for identification. 5. Conductors laid parallel and braided together with cotton or rayon. Can be furnished in all standard colors. Paranite parallel lamp cord with rayon braid presents excellent appearance. Furnished on 250-ft. spools; 6 spools to standard carton.

Size A.W.G.	No. and Size of Wires	Rubber Wall 64ths	Approx. O.D. Inches	Approx. Net Wt. M Feet	Shpg. Wt.Lbs. M Feet
18	16x#30	1	.123x.227R	17	36
18	16x#30	2	.167x.270R	27	41
16	26x#30	2	.172x.300R	37	56
14	41x#30	3	.217x.390R	59	60

R=Rayon.

PARALLEL ALL-RUBBER—TYPE POSJ



1 2 3

1. Extra flexible copper conductors. 2. Separator. 3. Rubber insulation, applied over conductors to make a one-piece cord — by splitting ends in the center of the groove conductors can be tipped back very easily. Paranite Paratwin cord is easier to attach and has better appearance.

Furnished on 250-ft. spools. 10 spools to a carton, except size 16 Awg., 6 spools to carton.

Size A.W.G.	Underwriters Type Letter	No. and Size of Wires	Rubber Wall 64ths	Approx. O.D. Inches	Shpg. Wt.Lbs. M Feet
20*	POSJ-64	26x#34	2	.110x.215	30
18	POSJ-64	41x#34	2	.125x.245	31
18	POSJ-32	41x#34	2	.145x.295	35
16	POSJ-32	65x#34	2	.170x.315	52

*Not approved.

PARALLEL PLASTIC—TYPE POT



Soft annealed 34 copper, one tinned and one plain conductor, plastic integral insulation and jacket to permit easy separation into two separately insulated conductors. Furnished in black, white, and brown color.

TWISTED PAIR—TYPE C



1 2 3 4

1. Flexible copper conductors. 2. Separator. 3. Code rubber insulation. 4. Cotton or rayon braid over each conductor — code for identification. Conductors twisted together. Green and yellow, black and all standard colors. Paranite twisted cords are for portables, extensions, cord fixtures, etc., dry places. Furnished on 250-ft. spools, except size 14 Awg. 250-ft. coils.

Size A.W.G.	No. and Size of Wires	Rubber Wall 64ths	Approx. O.D. Inches	Approx. Net Wt. M Feet	Std. Pkg. Spls.	Shpg. Wt.Lbs. M Feet
20*	10x#30	1	.092C	13	6	22
18*	16x#30	1	.108C	18	6	29
18	16x#30	2	.135C	25	6	40
16	26x#30	2	.150C	33	6	38
14	41x#30	2	.198C	66	4	67

C=Cotton. *Not approved.

PARANITE TELEPHONE WIRE

Outside Type—Weatherproof Drop and Bridle Wire Twisted Pair



Size A.W.G.	Insulation Thickness	Shipping Weight M Feet	Standard Shipping Package
19	1/32″	24 lbs.	1,000 ft. coils
18	1/32″	28 lbs.	1,000 ft. coils
17	1/32″	32 lbs.	1,000 ft. coils
16	1/32″	34 lbs.	1,000 ft. coils
14	1/32″	45 lbs.	1,000 ft. coils

Outside Type—Weatherproof Braid—Parallel Bronze Drop

17	1/32″	32 lbs.	1,000 ft. coils



Inside Type—Dry Braid Telephone Wire Twisted Pair

22	1/64″	10 lbs.	4x500 ft. coils
19	1/32″	21 lbs.	4x500 ft. coils
18	1/32″	25 lbs.	4x500 ft. coils
16	1/32″	38 lbs.	4x500 ft. coils

NATIONAL ELECTRIC BUILDING WIRE

TYPE TW—FOR WET LOCATIONS

600 Volts—60° C. (140° F.)

Listed by the Underwriters' Laboratories, Inc.



Type TW wire is the moisture-resistant grade of Type T wire, which the Underwriters' Laboratories have approved for wet locations in place of Lead Encased Cable. Type TW wire has all of the desirable features of Type T wire and in addition its insulation has extremely low moisture absorption rate.

Solid Conductor

Size A.W.G.	Strands	Insulation Thickness Inches	Normal Overall Diam.	Approx. Net Wt. Lbs. Per M Ft.	Std. Pkg. Feet (Coil)	Approx. Shpg. Wt. Lbs. Std.Pkg.
14	Solid	2/64	.130	20	500	11
12	Solid	2/64	.147	28	500	15
10	Solid	2/64	.168	41	500	22
8	Solid	3/64	.227	69	500	36

Stranded Conductors

14	7x.0242	2/64	.140	22	500	12
12	7x.0305	2/64	.158	30	500	16
10	7x.0385	2/64	.182	44	500	23
8	7x.0486	3/64	.246	75	500	39
6	7x.0612	4/64	.314	119	500	61
4	7x.0772	4/64	.363	176	500	89
					(Reel)	
2	7x.0974	4/64	.423	263	1000	326
1	19x.0664	5/64	.496	339	1000	402
1/0	19x.0745	5/64	.537	416	1000	479
2/0	19x.0837	5/64	.582	514	1000	577
3/0	19x.0940	5/64	.634	633	1000	696
4/0	19x.1055	5/64	.692	787	1000	850

Note: This same type cable is available in the circular mil (CM) sizes for open wiring only.

NATIONAL ELECTRIC WIRES

NATIONAL "DILEC" SAFECOTE BUILDING WIRE

Types R, RH and RW — 600-Volt



Regular (but not ordinary) building wire. Known for its slick, smooth, slipper finish, that gives 300% easier fishing. Flame-retardant, moisture-resistant finish that will not carry flame or absorb moisture. Rubber insulation strips freely and cleanly from tinned copper conductors, no scraping or sanding necessary.

Single Fibrous Covering

		Solid			Stranded		
Size AWG	Thick. Insulation In.	App. O.D. In.	Std. Pkg. Ft. Coil	App. Wt. Lb. Std. Pkg.	App. O.D. In.	Std. Pkg. Ft. Coil	App. Wt.Lb. Std. Pkg.
14	2/64	.153	500	13	.161	500	14
14	2/64*	.184*	500†	14	.192*	500	15
12	2/64	.170	500	17	.180	500	18
12	2/64*	.190*	500†	18	.211*	500	20
10	3/64	.222	500	25	.237	500	27
8	4/64	.281	500	41	.298	500	43

†500-ft. coil in carton.

With Double Fibrous Covering

Two Safecote saturated Fibrous Coverings are furnished on sizes 14 to 8 inclusive, on sizes No. 6 and larger a rubber-filled tape replaces the first or inner covering.

Solid — Double Fibrous Covering

Size A.W.G. or C.M.	Thickness Insulation Inches	Approx. O.D. Inches	Std. Pkg. Feet (Coil)	Approx. Shpg. Wt. Lbs. Std. Pkg.
14	2/64	.169	500	14
14	2/64*	.190*	500	15
12	2/64	.186	500	19
12	3/64*	.217*	500	20
10	3/64	.242	500	28
8	4/64	.299	500	43
6	4/64	.333	500	62

Stranded — Double Fibrous Covering

14	2/64	.177	500	15
14	3/64*	.208*	500	16
12	2/64	.196	500	20
12	3/64*	.231*	500	21
10	3/64	.255	500	29
8	4/64	.316	500	46
6	4/64	.364	500	64
4	4/64	.417	500	96
			Reels	
3	4/64	.445	1000	286
2	4/64	.478	1000	334
1	5/64	.548	1000	420
1/0	5/64	.588	1000	499
2/0	5/64	.634	1000	596
3/0	5/64	.686	1000	719
4/0	5/64	.744	1000	919
250,000	6/64	.838	1000	1164
300,000	6/64	.903	1000	1341
350,000	6/64	.954	1000	1502
400,000	6/64	1.001	1000	1675
500,000	6/64	1.088	1000	2017
600,000	7/64	1.200	1000	2464
700,000	7/64	1.269	1000	2799
750,000	7/64	1.303	1000	2960
800,000	7/64	1.333	1000	3203
900,000	7/64	1.399	1000	3549
1,000,000	7/64	1.456	1000	3885
1,250,000	8/64	1.635	500	2555
1,500,000	8/64	1.757	500	2975
1,750,000	8/64	1.873	500	3385
2,000,000	8/64	1.979	500	3800

*The dimensions for Type RW Conductors.

U.S. USRUB BUILDING WIRES AND CABLES

U.S. Building wires and Cables with fibrous coverings, flame retardant, moisture resistant finishes have small diameters with smooth, well lubricated surfaces, insuring easier pulling in conduits. Free stripping insulation guarantees clean, bright conductors for soldering, resulting in easy installation. Permanently bright colors provide easier identification. U.S. Brand name, type of insulation, conductor sizes, and voltage service printed at 6-inch intervals on sizes 8 AWG and smaller and 12-inch intervals on larger sizes indicate what wire to use for loads — 3 conductors in conduit. (The Code tells what percentage to apply for greater conduit loading.)

Multiple conductor cables are marked either by surface printing on individual conductors, or by printed tape.

U.S. PARACORE—TYPE R



U.S. Paracore Type R Building Wires and Cables are made in a complete range of sizes; fabricated with highest quality materials and finest workmanship. Soft drawn copper conductors are uniformly coated and insulated with National Electrical Code thickness of rubber compound. Over these is applied fibrous covering with flame-retardant, moisture-proof finish.

Solid Conductor—Single Braid

Size, A.W.G.	Thickness of Insulation, Inches	Outside, Diameter, Inches	Approximate Net Weight per 1000 ft.	Standard Package
14	2/64	.15	24	500 ft. coil
12	2/64	.17	33	500 ft. coil
10	3/64	.22	53	500 ft. coil
8	4/64	.28	84	500 ft. coil
*6	4/64	.32	115	500 ft. coil

Stranded (7 Strand) Conductor—Single Braid

14	2/64	.16	25	500 ft. coil
12	2/64	.18	35	500 ft. coil
10	3/64	.24	56	500 ft. coil
8	4/64	.30	90	500 ft. coil

Solid Conductor—Double Braid

Size, A.W.G.	Thickness of Insulation, Inches	Outside, Diameter, Inches	Approximate Net Weight per 1000 ft.	Standard Package
14	2/64	.17	26	500 ft. coil
12	2/64	.19	35	500 ft. coil
10	3/64	.24	56	500 ft. coil
8	4/64	.30	85	500 ft. coil
6	4/64	.35	128	500 ft. coil

U.S. PARACORE—TYPE RH



U.S. Paracore Type RH Building Wires and Cables have a fibrous covering with a flame-retardant finish. This insulation is particularly advantageous for aluminum conductors. As a result of insulating aluminum conductors with Type RH, aluminum in sizes No. 6 and larger may be substituted size for size with copper and carry the same current.

*Not Underwriters' approved.

U.S. LAYTEX* BUILDING WIRES AND CABLES

U.S. LAYTEX TYPE RU



The remarkably small diameters of U.S. Laytex Wires are the result of the unusual properties of their 90% unmilled, grainless rubber insulation (latex) and the special process by which they are produced. Except for the wall thicknesses and type of insulation, these wires are identical in construction to the conventional building wires that have been in use for many years. They have a fibrous covering with moisture-resistant and flame-retardant finish. U.S. Laytex Wires are available in sizes No. 14 to 6 Awg. Sizes 12 to 6 are available with aluminum conductors. They conform to the requirements of Underwriters' Laboratories Standards for type RU wire.

Distinctive Features of U.S. Laytex (RU) Building Wires

1. Insulation—90% Unmilled grainless rubber — with:
   - Unexcelled tensile strength and elongation
   - Excellent aging and moisture-resisting characteristics
   - High dielectric strength
   - High insulation resistance
   - Dependable uniform physical, electrical and aging properties
   - Free stripping characteristics.
2. Perfectly centered conductors.
3. A fibrous covering—providing excellent coverage and protection of the insulation.
4. Flame-retardant, moisture-resistant finish.
5. Smallest approved rubber-insulated conductors available for general use.
6. Ease of pulling into conduit and of installation.
7. Same method of installation as ordinary rubber insulated wires.
8. Permanent colors for circuit identification.
9. Package—500-foot coils—individual cartons.

SOLID SINGLE CONDUCTOR

Single Fibrous Cover

Conductor Size, Awg.	Minimum Insulation Thickness, Inch	Approx. Overall Diam., In.	Approx. Net Wt. Lbs. 1000 Ft.	Standard Package
14	.018	.130	18	Carton
12	.018	.147	27	Carton
10	.018	.168	40	Carton
8	.025	.214	65	Wrapped Coil
	Double Fibrous Cover			
14	.018	.154	20	Carton
12	.018	.171	29	Carton
10	.018	.192	43	Carton
8	.025	.237	68	Wrapped Coil

STRANDED SINGLE CONDUCTOR

Single Fibrous Cover

Conductor Size, Awg.	Minimum Insulation Thickness, Inch	Approx. Overall Diam., In.	Approx. Net Wt. Lbs. 1000 Ft.	Standard Package
14	.018	.140	20	Carton
12	.018	.158	29	Carton
10	.018	.188	42	Carton
8	.025	.230	67	Wrapped Coil
	Double Fibrous Cover			
14	.018	.164	25	Carton
12	.018	.182	33	Carton
10	.018	.206	49	Carton
8	.025	.253	71	Wrapped Coil
6	.025	.298	106	Wrapped Coil

*Reg. U.S. Pat. Off.

U.S. LAYTEX* BUILDING WIRES AND CABLES

U.S. LAYTEX TYPE RUW

To determine the insulation resistance of Laytex Insulation in wet locations, the Underwriters' Laboratories, Inc., applied a most severe test. Laytex was immersed in water at 50° C. (122° F.) for 24 consecutive weeks, nearly half a year. Instead of the resistance curve declining week by week, as in ordinary insulations, it climbed steadily. Note that after 24 weeks the resistance exceeded 2400 megohms per 1000 feet. This surpasses by 1000 megohms the requirements for the same type of insulation after only 12 hours immersion at room temperatures.

Cond. Size	Solid-Single Fibrous Covering: Rubber Wall Inches	Approx. O.D. Inches	Approx. Net Wt. Per M'	Solid-Double Fibrous Covering: Rubber Wall Inches	Approx. O.D. Inches	Approx. Net Wt. Per M'
14	.018	.130	20	.018	.150	22
12	.018	.147	28	.018	.164	30
10	.018	.168	41	.018	.186	44
8	.025	.208	62	.025	.226	66
	Stranded-Single Fibrous Covering			**Stranded-Double Fibrous Covering**		
14	.018	.140	22	.018	.159	24
12	.018	.157	31	.018	.175	33
10	.018	.188	45	.018	.202	48
8	.025	.288	68	.025	.243	72
6	------	------	----	.025	.270	110

*Reg. U.S. Pat. Off.

U.S. BUILDING WIRES AND CABLES

U.S. SYNRUB TYPE TW



Synrub Insulated Wires and Cables are made in a comprehensive range of sizes and types. They are insulated with thermoplastic materials which are highly resistant to abrasion, flame, oil, sunlight and aging, which permits elimination of a fibrous covering resulting in smaller diameter and lighter weight. U.S. Synrub Building Wires are made in accordance with the National Electrical Code in type TW for use in moist locations.

Conductor Size	No. of Strands	Ins. Wall 64th In.	Approx. O.D. Inches	Approx. Net Wt. Per M Ft.	Standard Package
		Solid			
14	1	2	.131	20	Carton
12	1	2	.148	28	Carton
10	1	2	.169	41	Carton
8	1	3	.229	69	Wrapped Coil
		Stranded			
14	7	2	.140	22	Carton
12	7	2	.158	30	Carton
10	7	2	.182	44	Carton
8	7	3	.246	75	Wrapped Coil
6	7	4	.315	119	24" R
4	7	4	.363	176	24" R
2	7	4	.423	263	30" R
1	19	5	.494	339	30" R
1/0	19	5	.537	416	30" R
2/0	19	5	.583	514	30" R
3/0	19	5	.634	633	36" R
4/0	19	5	.692	787	36" R

U.S. ALUMINUM CONDUCTORS



United States Rubber Company, pioneers in the development of aluminum conductors, offers aluminum wires and cables in all sizes. U.S. Neolay building wire is a new economical heavy duty wire with hard drawn aluminum conductors, heat resistant Type RH insulation and a tough Neoprene protective sheath. U.S. Paracore substitutes a braid covering for the Neoprene. Both constructions bear Underwriters' Laboratories labels.

Distinctive features of U.S. Aluminum Building Wire:

1. Economical—aluminum building wire has a definite price advantage over copper wire.
2. Lightweight.
3. Equal current carrying capacity with copper Type R.
4. Heat resistant insulation.
5. Oil, flame and abrasive resistant sheath.
6. High resistance to corrosion.

U.S. NEOLAY* ALUMINUM BUILDING WIRE

Conductor Size	Rubber Wall 64th In.	Jacket Wall 64th In.	Approx. O.D. Inches	Approx. Weight Per M Ft.
6	4	2	.385	91
4	4	2	.433	118
2	4	2	.493	158
1	5	3	.598	220
1/0	5	3	.639	255
2/0	5	3	.685	297
3/0	5	3	.736	348
4/0	5	3	.794	407
250,000	6	4	.903	514
300,000	6	4	.958	582
350,000	6	4	1.009	653
400,000	6	4	1.056	719
500,000	6	4	1.141	849
750,000	7	4	1.357	1201
1,000,000	7	4	1.511	1518

U.S. PARACORE ALUMINUM BUILDING WIRE

Double Fibrous Covering

Conductor Size	Rubber Wall 64th In.	Approx. O.D. Inches	Approx. Net Wt. Per M Ft.
6	4	.367	84
4	4	.415	110
2	4	.475	148
1	5	.571	201
1/0	5	.629	235
2/0	5	.675	276
3/0	5	.726	324
4/0	5	.784	384
250,000	6	.873	457
300,000	6	.947	531
350,000	6	.998	597
400,000	6	1.045	661
500,000	6	1.130	786
750,000	7	1.365	1,119
1,000,000	7	1.519	1,408

*Reg. U.S. Pat. Off.

U.S. ALUMINUM CONDUCTORS

CURRENT CARRYING CAPACITY

The allowable current carrying capacities of aluminum wires and cables given below are based on 84 per cent of the allowable current carrying capacity of copper conductors with the same kind of insulation as stipulated in Section 3106 and Tables 1 and 2 of the 1947 National Electrical Code.

For long circuits and in cases where voltage drop need be considered, the voltage drop may be calculated in the same manner as for copper. Aluminum conductors have the same resistance as copper of two Awg numbers smaller. For example, No. 12 Awg aluminum has 2.68 ohms per 1,000 feet. No. 14 Awg copper also has 2.68 ohms per 1,000 feet. The same relationships hold for other sizes. From a practical point of view one Awg number larger aluminum conductor (or in some cases, even the same gauge size) will serve the same purpose and carry the same current as the copper conductor. This is because the larger diameter of aluminum conductors results in lower reactance and lower alternating current resistance.

USAGE OF ALUMINUM BUILDING WIRES

The usage of aluminum as a conductor is by no means new. In many applications, notably high voltage transmission lines (Aluminum Cable Steel Reinforced), rural distribution lines, bus bar and aircraft, aluminum has proved itself efficient and trouble-free.

United States Rubber Company aluminum building wires handle and are installed in the same manner as copper building wires. The Laytex (Type RU) insulation in the branch circuit sizes and the Paracore (Types R and RH) insulation in sizes No. 6 Awg and larger make it possible to offer aluminum building wires having the same or smaller over-all diameters as copper.

As a result, installation of U.S. aluminum building wires follows standard procedure. Any type of wiring layout will accommodate aluminum building wires. Conduit, open wiring, no matter where, aluminum can be installed in the same manner as copper.

Current Carrying Capacity-Amps. (1947 Code)

Size Awg MCM	Conduit RH Copper	Conduit RH Aluminum	Conduit R Copper	Open Air RH Copper	Open Air RH Aluminum	Open Air R Copper
6	65	55	55	95	79	80
4	85	71	70	125	105	105
3	100	84	80	145	122	120
2	115	96	95	170	143	140
1	130	109	110	195	164	165
1/0	150	126	125	230	193	195
2/0	175	147	145	265	222	225
3/0	200	168	165	310	260	260
4/0	230	193	195	360	302	300
250 MCM	255	214	215	405	340	340
300	285	239	240	445	374	375
350	310	260	260	505	424	420
400	335	281	280	545	458	455
500	380	319	320	620	520	515
600	420	353	355	690	580	575
700	460	386	385	755	635	630
750	475	399	400	785	660	655
800	490	411	410	815	685	680
900	520	436	435	870	730	730
1000	545	458	455	935	785	780
1250	590	495	495	1065	895	890
1500	625	525	520	1175	986	980
1750	650	546	545	1280	1075	1070
2000	665	559	560	1385	1162	1155

CRESCENT WIRES AND CABLES

IMPERVEX TRENCHWIRE—TYPE USE—SINGLE CONDUCTOR—600 VOLTS



Crescent IMPERVEX TRENCHWIRE is a low cost, single conductor, non-metallic armored wire especially designed for direct earth burial. It is particularly suitable for underground services from power line to meter and/or service equipment; for connecting several buildings from the same service as on farms, estates and institutions; and for street, airport and other outdoor lighting.

Conductors are solid tinned copper in sizes No. 12, 10 and 8 AWG and stranded tinned copper in larger sizes. It is approved by Underwriters' Laboratories as Type USE — Underground Service Entrance Cable and conforms to the requirements of the National Electrical Code.

Insulation is IMPERVEX special moisture-resisting and heat-resisting rubber. Armor is a tough Neoprene jacket vulcanized over the insulation, protecting it from injury during and after installation. The Neoprene is flame-retarding, acid, alkali, moisture and oil resisting and practically unaffected by sunlight, air and exposure to weather.

A	B	C	D	E	F	G	H
						FACTOR Single Phase A.C. 60 c.p.s. Load Power Factor	
Conductor Size AWG	IMPERVEX Insulation Thickness 64ths Inch	Neoprene Armor Thickness 64ths Inch	Approximate Overall Diameter Inch	Approximate Net Weight Pounds 1000 Feet	Maximum Allowable Current Amperes	80% Lagging	100%
12	3	3	.275	55	20	318	260
10	3	3	.295	75	30	502	415
8	4	3	.355	105	45	792	667
6	4	3	.410	155	65	1203	1034
4	4	3	.490	230	85	1846	1637
2	4	3	.550	325	115	2781	2581
1	5	4	.655	425	130	3362	3255
1/0	5	4	.695	510	150	4058	4075
2/0	5	4	.740	615	175	4849	5066
3/0	5	4	.790	740	200	5780	6345
4/0	5	4	.850	900	230	6887	8000

IMPERVEX TRENCHCABLE—TYPE RR—THREE CONDUCTOR CABLE—600 VOLTS



Non-metallic armored cable designed for use in ducts or for direct earth installation. Highly resistant to acids, alkalies, corrosive chemicals and ground water. Since all metal in the outer coverings is eliminated, IMPERVEX TRENCHCABLE is lighter in weight, more flexible and easier to splice and terminate than a metallic armored cable.

Conductors are solid tinned copper in sizes 14 to 8 AWG, inclusive, and stranded tinned copper larger sizes. Insulation on each conductor is Crescent IMPERVEX, a moisture-resisting and heat-resisting compound. Armor is tough vulcanized Neoprene jacket. Manufactured in accordance with IPCEA Specifications. Approved by Underwriters' Laboratories as Type USE — Underground Service Entrance Cable.

A	B	C	D	E	F	G	H
						Voltage Drop Factor Single Phase A.C.—60 c.p.s. Based on Load Power Factor of	
Conductor Size AWG	IMPERVEX Insulation Thickness 64ths Inch	NEOPRENE Armor Thickness 64ths Inch	Approximate Overall Diameter Inches	Approximate Shipping Weight Pounds 1,000 Feet	Maximum Allowable Current Amperes	80% Lagging	100%
14	3	3	.515	202	15	199	161
12	3	4	.580	281	20	314	256
10	3	4	.625	446	30	497	408
8	4	4	.755	579	45	787	655
6	4	5	.905	864	65	1201	1014
4	4	5	1.005	1085	85	1855	1606
2	4	5	1.140	1594	115	2819	2531
1	5	6	1.315	2025	130	3453	3191
1/0	5	6	1.400	2314	150	4205	3997
2/0	5	6	1.500	2674	175	5056	4970
3/0	5	6	1.615	3463	200	6083	6219
4/0	5	7*	1.770	4072	230	7300	7850

*Heavier armor thickness is required on this size when it is to be labelled as Type USE.

IT IS IMPORTANT to use a large enough size conductor to prevent an excessive voltage drop that reduces the efficiency of lighting and appliances. The National Electrical Code recommends a 1% maximum voltage drop for lighting circuits and a 3% maximum voltage drop for power circuits.

TO DETERMINE THE PROPER SIZE TO USE, multiply the one-way length of the circuit by the current in amperes and divide by the desired voltage drop (in volts). This gives a Factor. Select the size with the next **larger** Factor in the FACTOR columns G and H above for the proper load power factor, but **not exceeding** the Maximum Allowable Current shown in Column F.

For 3 phase A.C. circuits multiply calculated Factor by 0.87 and proceed as above.

EXAMPLE: For a 125 foot run between buildings on a 220 volt single phase a.c. circuit, primarily for power, with a load of 60 amperes and 3% voltage drop:

$$\text{Factor} = \frac{125 \text{ (feet)} \times 60 \text{ (amperes)}}{6.6 \text{ (voltage drop)}} = 1136$$

Assuming a load power factor of 80% lagging (such as a motor load), Column G shows size No. 6 AWG is required.

CRESCENT CABLES

STEEL-TAPED PARKWAY CABLE

(TYPE RLJFJ)



Designed for use underground without the protection of ducts; it is ruggedly constructed, the lead encased cable being protected by two flat steel armor tapes and asphalted jute servings. Cables of this type are used extensively for power distribution, street lighting and control and signal cables.

VARNISHED CAMBRIC CABLE



Varnished cambric insulation is used where the cable will be subjected to greater loading, higher temperatures and where the maximum safety is necessary, such as for use in primary networks, primary supply feeders and around power houses.

Crescent manufactures a complete line of Parkway and Varnished Cambric cables conforming to Insulated Power Cable Engineers Association (I.P.C.E.A.) or special specifications.

NON-METALLIC TRENCH CABLE (TYPE RJ)



Where service requirements are less severe or of a temporary nature a cable of non-metallic construction is suitable and less expensive than steel taped Parkway; used extensively for airport lighting.

Crescent Trench cables are insulated with 30% special moisture-resisting rubber compound, sealed in and covered by tough, inert armor tapes and moisture seals of flexible non-hardening asphalt.

SPECIAL CABLES



Illustrated above is a 37 conductor Railroad Signal Cable made to customer's specifications. All types of special wires and cables can be supplied to customer's specifications, as well as those of the Army, Navy and Signal Corps.

The use of only the best raw materials, careful supervision during processing and rigid inspection and tests of finished goods assure customers wire and cable of the highest quality.

U.S. ROYAL MASTER PORTABLE CORDS

LAYTEX* INSULATION—EXTRA HEAVY NEOPRENE SHEATH

1. Laytex* insulation—90% Unmilled grainless rubber, with:
   Unexcelled tensile strength and elongation.
   Excellent aging and moisture-resisting characteristics.
   High dielectric strength.
   High insulation resistance.
   Dependably uniform physical, electrical and aging properties.
   Free stripping characteristics.
2. Laytex* insulation means smaller diameter, insulated conductors. This allows a heavier over-all sheath.
3. Extra Heavy Neoprene Sheath provides
   Abrasion, oil and flame resistance.
4. Fibrous covering provides color coding and additional protection of insulation.
5. Steel Strands provide high tensile strength where required.
6. Greater flexibility in larger sizes than conventional Type S cord.

*Laytex—Reg. U. S. Pat Off.

SPEC. 903—HARD SERVICE CORDS, COPPER CONDUCTORS



Size Awg.	Stranding	O.D. Inches	Jacket Wall, In.	Approx. Gross Wt. Lbs. 1000 Ft.	Std. Pkg. Coils in Ft.
		2-Conductor			
18	41/34	.414	.109	88	250
16	65/34	.444	.111	106	250
14	105/34	.506	.116	142	250
12	168/34	.564	.121	178	250
10	259/34	.612	.125	223	250
		3-Conductor			
18	41/34	.427	.110	101	250
16	65/34	.461	.113	124	250
14	105/34	.528	.118	165	250
12	168/34	.581	.123	212	250
10	259/34	.632	.127	270	250
		4-Conductor			
18	41/34	.455	.112	119	250
16	65/34	.493	.115	144	250
14	105/34	.569	.122	197	250
12	168/34	.626	.126	254	250
10	259/34	.684	.131	330	250

"U.S." ROYAL EXTRA FLEXIBLE WELDING CABLE



This cable is designed especially for the constant flexing which the electrode lead on a welding machine must stand. The tough Neoprene sheath is made to withstand being continually dragged over the ground.

The fine bare copper strands are covered with a paper tape and a layer of performance grade synthetic compound, then an open weave cord braid and Neoprene jacket.

Size AWG	Stranding	O.D. Inches	Net Wt. 1000 Ft.	Std.Pkg. Ft.	Reel In.
4	1071/34	.531	235	1000	30
3	1365/34	.565	281	1000	36
2	1701/34	.604	334	1000	36
1	2156/34	.644	401	1000	36
1/0	2695/34	.694	484	500	30
2/0	3381/34	.754	591	500	30
3/0	4263/34	.827	730	500	36
4/0	5341/34	.959	946	500	36

"U.S." ROYAL PORTABLE CORDS

For Electrical Tools and Appliances

The extremely flexible conductors are insulated with a special 30% rubber compound with good dielectric properties to insure against short circuit. Sizes 18, 16, and 14 have soft cotton fillers while sizes 12 and 10 are made with rubber fillers.

The outer jacket is made of Neoprene compound which is highly resistant to oil and grease.

Size 14-2 conductors and larger have the U.S. Bureau of Mines recommendation indicating that they will successfully stand up under the severe tests conducted by the Bureau.

Available in Black or Gold for better visibility.

TYPE SO — HEAVY DUTY



2-Conductor

Size AWG	Strand-ing	Thick. Insul. Inches	O.D. In.	Approx. Nt. Wt. 1000 Ft.	Std. Pkg. Ft. Coil
18	41/34	1/32	.391	77	250
16	65/34	1/32	.407	87	250
14	41/30	3/64	.532	148	250
12	65/30	3/64	.605	205	250
10	104/30	3/64	.640	246	250

3-Conductor

18	41/34	1/32	.412	92	250
16	65/34	1/32	.440	109	250
14	41/30	3/64	.563	178	250
12	65/30	3/64	.635	239	250
10	104/30	3/64	.690	305	250

4-Conductor

18	41/34	1/32	.447	109	250
16	65/34	1/32	.494	139	250
14	41/30	3/64	.618	218	250
12	65/30	3/64	.705	294	250
10	104/30	3/64	.760	381	250

TYPE SJO — LIGHT SERVICE



2-Conductor

18	41/34	1/32	.305	49	250
16	65/34	1/32	.330	60	250

3-Conductor

18	41/34	1/32	.335	64	250
16	65/34	1/32	.360	79	250



Single Conductor

18	41/34	4/64	.183	20	500
16	65/34	4/64	.193	24	500
14	41/30	5/64	.248	38	500
12	65/30	5/64	.263	49	250
10	104/30	5/64	.288	65	250

"U.S." ROYAL PORTABLE CABLES

For Mining Machines, Dredges, and Shovels

Constructed of flexible coated copper strands laid up for maximum flexibility, insulated with special 30% rubber compound, rubber filler and Neoprene oil resistant sheath. A strong open-weave cord braid between the filler compound and the jacket binds the servings together. These cables are available for high-voltage service as well as the 600-volt constructions detailed below.

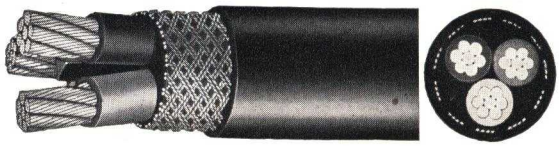
U.S. Royal portable cables have the U.S. Bureau of Mines recommendation indicating that they will successfully stand up under the severe tests conducted by the Bureau. Available in Black or Gold for better visibility.

TWO-CONDUCTOR



Size AWG	Strand-ing	O.D. In.	Nt. Wt. 1000 Ft.	Std. Pkg. Ft.	Reel In.
8	49/25	.81	396	1000	36
6	49/23	.93	548	1000	42
6	133/27	.97	554	1000	42
4	49/21	1.073	765	500	36
4	133/25	1.12	825	500	36
3	49/20	1.17	915	500	36
3	133/24	1.19	965	500	36
2	133/23	1.277	1130	500	42
1	133/22	1.440	1410	500	42
1/0	259/24	1.57	1705	500	42
2/0	259/23	1.70	1975	500	48
3/0	259/22	1.777	2420	500	48
4/0	259/21	1.98	2920	500	54

THREE-CONDUCTOR



8	49/25	.91	537	1000	42
6	49/23	1.01	704	1000	42
6	133/27	1.01	714	1000	42
4	49/21	1.16	966	500	36
4	133/25	1.17	1015	500	36
3	49/20	1.20	1150	500	36
3	133/24	1.21	1206	500	36
2	133/23	1.27	1416	500	42
1	133/22	1.39	1760	500	48
1/0	259/24	1.52	2130	500	48
2/0	259/23	1.65	2465	500	48
3/0	259/22	1.97	3005	500	54
4/0	259/21	1.92	3670	500	60

FOUR-CONDUCTOR

8	49/25	.99	658	1000	42
6	49/23	1.10	882	1000	42
6	133/27	1.10	883	1000	42
4	49/21	1.27	1180	500	42
4	133/25	1.27	1265	500	42
3	49/20	1.34	1430	500	42
3	133/24	1.34	1510	500	42
2	133/23	1.492	1740	500	42
1	133/22	1.68	2200	500	48
1/0	259/24	1.85	2560	500	48
2/0	259/23	1.938	3083	500	54
3/0	259/22	2.15	3810	500	60
4/0	259/21	2.34	4520	500	60

NATIONAL FLEXIBLE APPARATUS CABLE

600 VOLT—ASBESTOS-VARNISHED CAMBRIC



(1) (2) (3) (4) (5)

(1) Flexible coated copper conductor. (2) Felted asbestos. (3) Varnished cambric. (4) Felted asbestos. (5) Asbestos braid. (Black flame-heat-and-moisture resistant impregnation.)

Recommended for motor leads, coil connections, transformer leads and internal wiring of mining machinery, etc. Can be operated at temperatures up to 110° C. (230° F.).

Thickness of first felted asbestos wall: Sizes 14 to 2, .010 inch; 1 to 4/0, .015 inch; 250,000 to 1,000,000 c.m., .020 inch.

Thickness of second felted asbestos wall: Sizes 14 to 2, .015 inch; 1 to 4/0, .030 inch; 250,000 to 1,000,000 c.m., .040 inch.

Thickness of asbestos braid: Sizes No. 14 A.W.G. to 1,000,000 C.M., .045 inch.

600 Volts Service—NEMA Standard No. 39-54 Table 33

Size AWG or CM	Number and Size of Strands (Coated)	Thickness of Varnished Cambric	*Nominal Over-all Diameter	Approx. Net Wt. Pounds M Feet	Std. Pkg. Ft.
14	41x.010	.030	.275	45	500C
12	65x.010	.030	.295	59	500C
10	105x.010	.030	.320	76	500C
8	133x.0112	.030	.370	104	500C
6	133x.0141	.030	.415	147	1000R
4	133x.0177	.030	.470	210	1000R
2	133x.0224	.030	.540	300	1000R
1	259x.0180	.030	.620	415	1000R
1/0	259x.0202	.030	.665	492	1000R
2/0	259x.0227	.030	.720	592	1000R
3/0	259x.0255	.030	.775	721	1000R
4/0	259x.0286	.030	.840	875	1000R
250000	427x.0242	.040	.945	1055	500R
300000	427x.0265	.040	1.010	1233	500R
350000	427x.0286	.040	1.065	1404	500R
400000	427x.0306	.040	1.120	1586	500R
500000	427x.0342	.040	1.215	1935	500R
600000	427x.0380	.040	1.320	2289	500R
700000	427x.0403	.040	1.380	2622	500R
750000	427x.0420	.040	1.425	2794	500R
800000	427x.0427	.040	1.445	2961	500R
900000	427x.0453	.040	1.515	3294	500R
1000000	427x.0480	.040	1.585	3628	500R

*A tolerance of plus or minus 5 per cent is necessary on account of variations in process of manufacture.

For the All-Asbestos type, see NEMA Standard No. 39-54 Table 34.

NATIONAL FLEXIBLE APPARATUS CABLE

600 VOLT—ALL-ASBESTOS



(1) (2) (3)

(1) Flexible coated copper conductor. (2) Felted asbestos. (3) Asbestos braid. (Black flame-heat-and-moisture resistant impregnation.)

Recommended particularly for motor leads, crane wiring and other applications where a flexible cable is required or preferred and severe conditions of heat may be encountered. Can be operated at temperatures up to 125° C. (257° F.).

600 Volt Service—NEMA Standard No. 39-54 Table 34

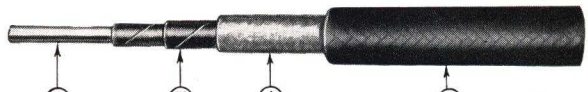
Size AWG or CM	No. and Size of Strands	Thickness Felted Asbestos	Thickness Asbestos Braid	*Nominal Over-all Diam.	App. Net Wt. Pounds M Feet	Std. Pkg. Ft.
14	41x.010	.040	.045	.245	38	500C
12	65x.010	.040	.045	.265	49	500C
10	105x.010	.040	.045	.290	65	500C
8	133x.0112	.040	.045	.340	92	500C
6	133x.0141	.060	.045	.425	140	1000R
4	133x.0177	.060	.045	.480	203	1000R
2	133x.0224	.060	.045	.550	290	1000R
1	259x.0180	.090	.045	.650	407	1000R
1/0	259x.0202	.090	.045	.695	482	1000R
2/0	259x.0227	.090	.045	.750	581	1000R
3/0	259x.0255	.090	.045	.810	708	1000R
4/0	259x.0286	.090	.045	.870	860	1000R
250000	427x.0242	.120	.045	.985	1035	500R
300000	427x.0265	.120	.045	1.050	1211	500R
350000	427x.0286	.120	.045	1.105	1385	500R
400000	427x.0306	.120	.045	1.160	1560	500R
500000	427x.0342	.120	.045	1.255	1910	500R

*A tolerance of plus or minus 5 per cent is necessary on account of variations in process of manufacture.

NATIONAL BOILER ROOM WIRE

BRAIDED—ASBESTOS-VARNISHED CAMBRIC TYPE AVA—600 VOLTS

Listed by Underwriters' Laboratories, Inc.



Sizes No. 14 to 8



(2) **Sizes No. 6 and 4**

(1) Solid copper conductor. (2) Felted asbestos. (3) Varnished cambric. (4) Felted asbestos. (5) Asbestos braid. (Black flame-heat-and-moisture resistant impregnation.)

Recommended for general lighting and control circuits, open wiring and conduit work, where exposed to heat, corrosive fumes, oil, grease, etc. Can be operated at temperatures up to 110° C. (230° F.).

Thickness of first felted asbestos wall, sizes No. 6 and 4, .015 inch; thickness of second felted asbestos wall, all sizes, .020 inch; thickness of asbestos braid, .045 inch.

600 Volt Service—NEMA Standard No. 39-54 Table 37

Size AWG	Conductor	Thickness V.C.	*Nominal Over-all Diameter	Approx. Wt. Lbs. M Feet	Std. Pkg. Ft.
14	Solid	.025	.245	36	500C
12	Solid	.025	.265	45	500C
10	Solid	.025	.285	59	500C
8	Solid	.025	.310	85	500C
6	Solid	.030	.385	138	500R
4	Solid	.030	.425	193	500R

*A tolerance of plus or minus 5 per cent is necessary on account of variations in process of manufacture.

Where a stranded conductor is required, it can be furnished.

NATIONAL SWITCHBOARD WIRE

TYPE AVB—ASBESTOS-VARNISHED CAMBRIC

Listed by Underwriters' Laboratories, Inc.

600 VOLTS



Solid coated copper conductor. Varnished cambric. Felted asbestos. Cotton braid. (Gray flame-and-heat resisting finish.)

Approved for operating temperatures up to 90° C. (194° F.) and ideal for wiring switchboards. Can also be used for general purposes in dry locations.

Solid Conductor—600 Volts
NEMA Standard No. 39-54 Table 12

Size AWG	No. and Size of Strands	Thickness, Inches V.C.	Felted Asbestos	Cotton Braid	*Nominal Over-all Diam.	App. Net Wt. Pounds M Feet	Std. Pkg. Ft.
14	Solid	.030	.020	.016	.205	34	500C
12	Solid	.030	.020	.016	.225	44	500C
10	Solid	.030	.020	.017	.245	61	500C
8	Solid	.030	.020	.017	.270	84	500C
6	Solid	.040	.040	.017	.370	155	500R
4	Solid	.040	.040	.020	.410	210	500R

Stranded Conductor—600 Volts
NEMA Standard No. 39-54 Table 11

14	7x.0242	.030	.020	.016	.215	36	500C
12	7x.0305	.030	.020	.016	.235	49	500C
10	7x.0385	.030	.020	.017	.260	63	500C
8	7x.0486	.030	.020	.017	.290	88	500C
6	7x.0612	.040	.040	.017	.390	165	500R
4	7x.0772	.040	.040	.020	.440	225	500R
2	7x.0974	.040	.040	.020	.500	315	500R
1	19x.0664	.040	.040	.020	.540	380	500R
1/0	19x.0745	.040	.040	.020	.580	460	500R
2/0	19x.0837	.040	.040	.020	.625	555	500R
3/0	19x.0940	.040	.040	.020	.675	675	500R
4/0	19x.1055	.040	.040	.020	.735	835	500R

*A tolerance of plus or minus 5 per cent necessary on account of variations in process of manufacture.

TYPE TA—ASBESTOS NE'on THERMOPLASTIC

Listed by Underwriters' Laboratories, Inc.

600 VOLTS



Solid coated copper conductor. NE'on (Thermoplastic compound). Felted asbestos. Cotton braid. (Gray flame-and-heat resisting finish.)

Recommended for wiring switchboards and all other types of control apparatus where superior properties are desired. Can be operated at temperatures up to 90° C. (194° F.).

Solid Conductor—600 Volts
NEMA Standard No. 39-54 Table 14A

Size AWG	No. and Size of Strands	Synthetic Thermo-plastic Ins.	Felted Asbes-tos Insula-tion	Minimum Cotton Braid Thick.	*Normal Over-all Diam.	App. Shpg. Wt.Lbs. M Feet
14	Solid	.0225	.020	.016	.185	33
12	Solid	.0225	.020	.016	.200	43
10	Solid	,0225	.020	.016	.220	57
8	Solid	.0225	.020	.017	.250	79

Stranded Conductor—600 Volts
NEMA Standard No. 39-54 Table 14

14	7x.0242	.0225	.020	.016	.190	35
12	7x.0305	.0225	.020	.016	.210	44
10	7x.0385	.0225	.020	.017	.240	59
8	7x.0486	.0225	.020	.017	.270	83

NATIONAL HINGE CABLE

600 VOLT HINGE CABLE

ASBESTOS—NE'on THERMOPLASTIC



Flexible tinned copper conductor. NE'on (Thermoplastic compound). Felted asbestos. Cotton braid. (Gray flame-and-heat resisting finish.)

Recommended for swinging panel connections and general switchboard and panel work where extra flexible conductor is required or preferred. Can be operated at temperatures up to 90° C. (194° F.).

600 Volt Service

NEMA Standard No. 39-54 Table 15

Size AWG	No. and Size of Strands	Synthetic Thermo-plastic Ins.	Felted Asbes-tos Insula-tion	Minimum Cotton Braid Thick.	*Normal Over-all Diam.	App. Shpg. Wt.Lbs. M Feet
14	41.x010	.0225	.020	.016	.200	28
12	65x.010	.0225	.020	.016	.220	38
10	105x.010	.0225	.020	.017	.250	54
8	133x.0112	.0225	.020	.017	.300	79

600 VOLT HINGE CABLE

ASBESTOS-VARNISHED CAMBRIC



Flexible tinned copper conductor. Felted asbestos. Varnished cambric. Felted asbestos. Cotton braid. (Gray and flame-and-heat resisting finish.)

Recommended for hinge or jumper connections on swinging panels, etc. Can be operated at temperatures up to 90° C. (194° F.).

600 Volts Service

NEMA Standard No. 39-54 Table 13

Size AWG	No. and Size of Strands	Thick. Varished Cambric	Thick. Cot-ton Braid	*Normal Over-all Diam.	App. Net Wt. Pounds M Feet	Std. Pkg. Ft.
14	41x.010	.025	.016	.215	32	500C
12	65x.010	.025	.016	.235	43	500C
10	105x.010	.025	.017	.260	59	500C
8	133x.0112	.025	.017	.310	85	500C

Thickness of first felted asbestos wall, .010 inch. Thickness of second felted asbestos wall, .015 inch.

*A tolerance of plus or minus 5 per cent is necesesary on account of variations in process of manufacture.

NATIONAL ELECTRIC APPLIANCE LEAD WIRE

300 VOLT—ALL-ASBESTOS



(1) Copper Conductor.
(2) Felted Asbestos (Impregnated).
(a) Type A Smokeless (flame-and-heat).
(b) Type AI moisture-resistant (flame-heat-and-moisture).

Appliance lead wire with smokeless insulation is recommended for wiring electrical appliances such as hot plates and toasters where high temperature and no moisture are encountered. Standard colors — Black, White, Red, Green Gray, Blue or Yellow.

Appliance lead wire with moisture-resisting insulation is recommended for wiring electric ranges, stoves, hot water heaters and other electrical appliances where both heat and moisture resistance are desirable. The insulation is moisture resisting but may smoke at approximately 300° F. Standard colors — same as above.

NE Table 41—300 Volts Service
NEMA Publication No. 48-131

Conductor Size A.W.G.	Number and Size of Strands	Thickness Felted Asbestos	Nominal Over-all Diameter	Approx. Net Wt. Lbs. Per M Ft.	Std. Pkg. Coils
18	Solid	.030″	.110″	10	1000′
16	Solid	.030″	.111″	13	1000′
14	Solid	.030″	.124″	19	1000′
12	Solid	.030″	.141″	27	1000′
10	Solid	.030″	.162″	41	1000′
8	Solid	.030″	.188″	62	1000′
18	Solid	.040″	.120″	12	1000′
16	Solid	.040″	.131″	15	1000′
14	Solid	.040″	.144″	21	1000′
12	Solid	.040″	.161″	30	1000′
10	Solid	.040″	.182″	43	1000′
8	Solid	.040″	.208″	64	1000′

NE Table 43—300 Volt Service
NEMA Publication No. 48-131

18	16/30(.010″)	.030″	.105″	10	1000′
16	26/30(.010″)	.030″	.105″	14	1000′
14	41/30(.010″)	.030″	.135″	20	1000′
12	65/30(.010″)	.030″	.155″	29	1000′
10	104/30(.010″)	.030″	.180″	44	1000′
8	165/30(.010″)	.030″	.211″	66	1000′
18	16/30(.040″)	.040″	.125″	12	1000′
16	26/30(.040″)	.040″	.139″	16	1000′
14	41/30(.040″)	.040″	.155″	22	1000′
12	65/30(.040″)	.040″	.175″	32	1000′
10	104/30(.040″)	.040″	.200″	46	1000′
8	165/30(.040″)	.040″	.231″	68	1000′

Note: The smokeless or moisture-resisting electric stove wires described above are available in a three conductor assembly.

NATIONAL ELECTRIC APPLIANCE GROUNDING WIRE

300 VOLT



(1) Copper Conductor.
(2) FeltedAsbestos (Impregnated with flame-heat-and-moisture saturant).

Recommended for grounding metallic part of stove or electric range to ground wire as required in National Electrical Code. Color — Green.

Size AWG	Number and Size of Strands (Untinned)	Felted Asbestos Wall	Nominal Over-all Diameter	Approx. Net Wt. Lbs. Per M Ft.	Std. Pkg. Coil
14	7/.0242	.015″	.103″	16	1000′

NATIONAL ELECTRIC STOVE WIRE

TYPE AA—ALL-ASBESTOS

Listed by Underwriters' Laboratories, Inc.



Solid copper conductor. Felted asbestos. Asbestos braid. (White flame-and-heat resisting impregnation.)

For use in wiring stoves, ranges, hot-plates and other heating appliances. Suitable for operating temperatures as high as 200° C. (392° F.) in definitely dry places.

Solid Conductor—300 Volts
NEMA Standard No. 39-54 Table 14

Size AWG	No. and Size of Strands	Thickness Felted Asbestos	Thickness Asbestos Braid	*Nominal Over-all Diameter	Approx. Net Wt. Pounds M Feet	Std. Pkg.
18	Solid	.031	.045	.195	21	500C
16	Solid	.031	.045	.205	25	500C
14	Solid	.031	.045	.220	36	500C
12	Solid	.031	.045	.235	46	500C
10	Solid	.031	.045	.255	60	500C
8	Solid	.031	.045	.280	85	500C
6	Solid	.031	.045	.335	118	500R
4	Solid	.031	.045	.375	170	500R

Stranded Conductor—300 Volts
NEMA Standard No. 39-54 Table 45

18	7x.0151	.031	.045	.200	21	500C
16	7x.0193	.031	.045	.210	25	500C
14	7x.0242	.031	.045	.225	38	500C
12	7x.0305	.031	.045	.245	48	500C
10	7x.0385	.031	.045	.270	62	500C
8	7x.0486	.031	.045	.300	89	500C
6	7x.0612	.040	.045	.355	123	500R
4	7x.0772	.040	.045	.405	171	500R

*A tolerance of plus or minus 5 per cent is necessary on account of variations in process of manufacture.

Note: Can be furnished with black flame-heat-and-moisture resistant impregnation if moisture is likely to be encountered after the wire is placed in the device. Cable of this construction can be operated up to 125° C. (257° F.).

NATIONAL ELECTRIC FIXTURE WIRE

TYPE AF—HEAT-RESISTING—300 VOLTS

Listed by Underwriters' Laboratories, Inc.



Recommended for wiring lighting fixtures, electric ranges, radio apparatus, and as small motor leads. May be subjected to temperatures up to 125° C. (257° F.). Standard colors, plain type —black or white. Braided type—brown, old brass, or black with or without traced in cotton or rayon.

Size A.W.G.	No. and Size of Strands	Felted Asbestos Wall	Overall Diameter* Plain (No Braid)	Glazed Cotton	Rayon	Std.Pkg. Feet (Spool)
18	16x30	.031	.107	.135	.120	500
16	26x30	.031	.121	.150	.135	500
14	41x30	.031	.137	.165	.150	500
12	65x30	.040	.175	.205	.190	250
10	105x30	.040	.200	.230	.215	250
18	Solid	.031	.102	.130	.115	500
16	Solid	.031	.113	.145	.130	500
14	Solid	.031	.126	.155	.140	500
12	Solid	.040	.161	.190	.175	250
10	Solid	.040	.182	.210	.195	250

***In accordance with N.E.M.A. Standard and subject to a tolerance of plus or minus 5%.**

Multiple conductor Type AFC, AFPO and AFPD assemblies made up with flexible type AF conductors and can be supplied on special order. The color and type of braid covering must be specified.

DELTABESTON FIXTURE WIRES

TYPE AF—300 VOLTS—90° C.

FLAME-, HEAT-, AND MOISTURE-RESISTING FELTED ASBESTOS INSULATION

YK-7172—SOLID



YK-7272—STRANDED



Plain White or Black Finish

YK-7173—SOLID



YK-7273—STRANDED



Braided Rayon or Glazed Cotton—with or without Tracer

These fixture wires are approved for wiring all types of lighting fixtures designed for interior illumination, sun lamps, therapeutic devices, showcase wiring and all types of high-wattage units, especially where socket temperature exceeds 90° C. (194° F.). Standard colors: Plain type—black or white. Other colors on request (at no extra cost in quantities of 1000 feet or more). Braided type—brown, old brass or black with and without tracer in glazed cotton or rayon (other colors on request, all based on NEMA color specifications). N. E. Code Standard.

Size AWG	Stranding	O. D. Bare Inches	Felted Asbestos Wall in Mils	Nominal Outside Diam. in In.*	Wt. in Lbs. per M Ft.	Standard Packages in Ft.		
						Spool	Coil	Reel
PLAIN TYPE — SOLID COPPER CONDUCTOR — YK-7172								**S.I. 57039**
10		.102	47	.196	41	. . .	500	2500
12		.081	47	.175	27	. . .	500	2500
14		.064	32	.128	19	500	. . .	2500
16		.051	32	.115	13	500	. . .	2500
18		.040	32	.104	10	500	. . .	2500
PLAIN TYPE — STRANDED COPPER CONDUCTOR — YK-7272								**S.I. 57039**
10	105/30	.123	47	.217	44	. . .	500	2500
12	65/30	.097	47	.191	30	. . .	500	2500
14	41/30	.077	32	.141	20	500	. . .	2500
16	26/30	.059	32	.123	14	500	. . .	2500
18	16/30	.047	32	.111	10	500	. . .	2500

Size AWG	Stranding	O. D. Bare In.	Felted Asbestos Wall in Mils	Nominal Outside Dia. in Inches*		Wt. in Lbs. Per M Feet		Standard Packages in Feet		
				Rayon	Glazed Cotton	Rayon	Glazed Cotton	Spool	Coil	Reel
BRAIDED TYPE — SOLID COPPER CONDUCTOR — YK-7173										**S.I. 57041**
10	. . . . .	.102	47	.211	.226	45	46	. . .	500	2500
12	. . . . .	.081	47	.190	.205	31	32	. . .	500	2500
14	. . . . .	.064	32	.143	.158	21	23	500	. . .	2500
16	. . . . .	.051	32	.130	.145	17	19	500	. . .	2500
18	. . . . .	.040	32	.119	.134	13	15	500	. . .	2500
BRAIDED TYPE — STRANDED COPPER CONDUCTOR — YK-7273										**S.I. 57041**
10	105/30	.123	47	.232	.247	45	46	. . .	500	2500
12	65/30	.097	47	.206	.221	31	32	. . .	500	2500
14	41/30	.077	32	.156	.171	21	23	500	. . .	2500
16	26/30	.059	32	.138	.153	17	19	500	. . .	2500
18	16/30	.047	32	.126	.141	13	15	500	. . .	2500

*A tolerance of 5% over or under outside diameter shown above is necessary due to process of manufacture.

AMERICAN BEAUTY HEATER CORD



"American Beauty" Nos. 100-GB and 10-X GB are two-conductor heater cord with conductors twisted together under one gold-and-black outer covering. No. 97-RB is two-conductor heater cord, each conductor under separate red-and-black outer covering and then twisted together.

10,000 Cycle (Underwriters' Gold Label)

Cat. No.	Size B&S Gauge	No. of Conductors	Approx. Wt. Lbs. 1000 Ft.	Std. Pkg.	Price Per 1000 Ft.
100-GB	17	2	45	250-ft. spools	**$56.00**
97-RB	17	2	45	250-ft. spools	**57.00**
10X-GB	16	2	50	250-ft. spools	**60.00**
103T-GB	17	3	68	250-ft. coils	**103.00**
94-GB	14	2	55	250-ft. coils	**92.00**
92-GB	12	2	60	200-ft. coils	**162.00**
90-GB	10	2	70	200-ft. coils	**225.00**

CRESCENT THERMOSTAT CABLE

BRAIDED THERMOSTAT CABLE



Solid copper conductors, two cotton wraps saturated with paraffin, color coded conductors twisted and paraffin saturated braid overall.

Sizes: 18/2; 18/3; 18/4; 18/5
16/2; 16/3; 16/4; 16/5

ARMORED THERMOSTAT CABLE



Solid copper conductors, two cotton wraps saturated with paraffin, color coded conductors twisted, paraffin saturated braid and half oval galvanized steel armor overall.

Sizes: 18/2; 18/3; 18/4; 18/5
16/2; 16/3; 16/4; 16/5

SLOW BURNING WIRE

SOLID NEW CODE—TRIPLE BRAID



Size B. & S.	Approximate Weight Lbs. 1,000 Ft.	Approximate Weight Lbs. Per Mile	Approx. Dia. In. Over Ins.	Reels Diam. Reel Inches	Reels App. Length Feet	Reels App. Wt. Lbs.
1	360	1,910	29/64	28	1,000	360
2	290	1,550	27/64	28	1,320	380
4	200	1,056	3/8	28	2,000	400
6	150	792	21/64	28	2,640	396
8	100	528	19/64	28	2,640	265
10	80	422	17/64	28	3,500	280
12	50	264	13/64	----	--------	------
14	40	210	3/16	----	--------	------
16	30	158	3/16	----	--------	------
18	25	132	11/64	----	--------	------

Size B.&S.	Case Coils 8 Coils to a Case Lbs. per Coil	Case Coils 8 Coils to a Case Lbs. per Case	Reels Diam. Head In.	Reels Traverse Inches	Reels Size Arbor To Use Inches	Reels Wt. Lbs.
8	44	350	50	18	2	285
10	40	320	36	12	2	110
12	42	335	30	8½	1¼	40
14	35	280	28	8½	1¼	35
16	30	240	----	--------	------	------
18	25	200	----	--------	------	------

Sizes Nos. 1 to 10 inclusive can also be supplied in full-reel and half-reel coils.

WEATHERPROOF WIRE

SOLID—DOUBLE AND TRIPLE BRAID



Size B.&S.	Double Braid Approx. Lbs. Per 1000 Ft.	Double Braid Approx. Lbs. Per Mile	Double Braid Diam. In. Over Insulation	Triple Braid Approx. Lbs. Per 1000 Ft.	Triple Braid Approx. Lbs. Per Mile	Triple Braid Diam. In. Over Insulation
0000	709	3,744	21/32	745	3,933	47/64
000	574	3,031	39/64	605	3,195	11/16
00	462	2,439	9/16	495	2,613	41/64
0	374	1,975	33/64	402	2,123	19/32
1	288	1,521	13/32	305	1,610	29/64
2	233	1,230	3/8	250	1,320	27/64
4	149	787	21/64	163	861	3/8
6	99	523	9/32	112	591	21/64
8	68	359	1/4	75	396	19/64
10	46	243	7/32	53	280	17/64
12	30	158	11/64	35	185	13/64
14	21	111	5/32	25	132	3/16
16	16	84	9/64	20	106	3/16
18	12	63	1/8	16	85	11/64

STRANDED TRIPLE BRAID



Capacity Circular Mils	Approx. Wt. Lbs. Per 1000 Ft.	Approx. Wt. Lbs. Per Mile	Diam. Over Insulation	No. Wires	Diam. Each
1,000,000	3,520	18,586	1⅝	61	.128
900,000	3,200	16,896	1 7/16	61	.1215
800,000	2,875	15,180	1 23/64	48	.129
700,000	2,477	13,079	1 9/32	37	.1375
600,000	2,155	11,378	1 7/32	37	.128
500,000	1,820	9,610	1⅛	27	.136
450,000	1,646	8,691	1 5/64	27	.129
400,000	1,499	7,915	1 1/32	27	.122
350,000	1,305	6,890	1	19	.136
300,000	1,105	5,834	15/16	19	.126
250,000	937	4,948	7/8	12	.145
B. & S. Gauge					
0000	800	4,225	53/64	7	.174
000	639	3,374	25/32	7	.155
00	510	2,693	23/32	7	.138
0	415	2,191	21/32	7	.123
0000	800	4,225	53/64	12	.133
000	639	3,374	25/32	12	.199
00	510	2,693	23/32	7	.138
0	415	2,191	21/32	7	.123
1	310	1,637	33/64	7	.1095
2	252	1,330	29/64	7	.0975
4	166	877	13/32	7	.077
6	115	608	23/64	7	.062
8	80	425	21/64	7	.049
Circular Mils	STRANDED DOUBLE BRAID				
1,000,000	3,456	18,248	1 17/32	61	.128
900,000	3,050	16,104	1 13/32	61	.1215
800,000	2,729	14,410	1 17/64	48	.129
700,000	2,353	12,423	1 3/16	37	.1375
600,000	2,093	11,050	1⅛	37	.128
500,000	1,725	9,108	1 1/32	27	.136
450,000	1,563	8,253	1	27	.129
400,000	1,385	7,313	15/16	27	.122
350,000	1,200	6,336	29/32	19	.136
300,000	1,045	5,518	27/32	19	.126
250,000	878	4,636	25/32	12	.145
B. & S. Gauge					
0000	744	3,928	¾	7	.174
000	600	3,168	45/64	7	.155
00	480	2,534	41/64	7	.138
0	388	2,049	37/64	7	.123
1	300	1,584	15/32	7	.1095
2	240	1,267	13/32	7	.0975
4	155	818	23/64	7	.077
6	102	539	5/16	7	.062
8	68	359	9/32	7	.049

MUELLER UNIVERSAL CLIPS

Screw or lug connections; no solder required; channel construction throughout; polarity indications + for positive, plain for negative.



No. 48-B



No. 24-A

Cat. No.	Description	Length of Clip	Spread of Jaws.	Price Each
11	200 amp., solid copper Clip with lug	6″	1¾″	$1.17
11-A	100 amp., Clip, with lug, steel, lead plated	6″	1¾″	.75
21	100 amp., solid copper Clip with lug	4½″	1¼″	.61
21-A	50 amp., Clip with screw, steel, lead plated	4″	1¼″	.21
22	Twin-Clip with screw, steel, cadmium plated	2″	1½″	.10
24	50 amp., solid copper Clip with screw	2⅞″	1″	.25
24-A	25 amp., Clip with screw, steel, lead plated	2⅞″	1″	.14
27	20 amp., Clip with screw, steel, cadmium plated	2 7/16″	⅝″	.10
27-C	40 amp., solid copper Clip with screw	2 7/16″	⅝″	.18
33	300 amp., solid copper Clip with lug	7¾″	2″	2.00
45	Pee-Wee Clip with screw, steel, cadmium plated	1½″	⅜″	.07
45-C	Solid copper Clip with brass screw, phosphor bronze spring	1½″	¼″	.10
48-B	Clip with screw, steel cadmium plated	2″	½″	.07
48-C	Solid copper Clip, with screw	2″	½″	.12
82	Needle Clip with screw, steel, cadmium plated	2″	½″	.15
88	Pee-Wee phosphor bronze Clip	1 1/16″	¼″	.16
95	Clip with screw, steel, cadmuim plated	2″	½″	.07

Packed 10 in a box; 100 in a standard carton.

ALLIGATOR AND CROCODILE CLIPS



No. 60-HS Alligator Clip



No. 85 Crocodile Clip

Cat. No.	Description	Price Each
60	Alligator Clip, steel, solder connection	$0.07
60-S	Alligator Clip, steel, screw connection	.08
60-HS	Alligator Clip, steel, insulated handle, screw connection	.11
60-CS	Alligator Clip, solid copper, screw connection	.11
60-CHS	Alligator Clip, solid copper, insulated handle, screw connection	.15
85	Crocodile Clip, steel, screw connection, cadmium plated	.08
85-C	Crocodile Clip, solid copper, brass screw, bronze spring	.11
85-T	Crocodile "Tip-Clip," steel, screw connection, cadmium plated	.16

Packed 10 in a box; 100 in a standard carton.

MUELLER UNIVERSAL CLIPS

CLIP INSULATORS



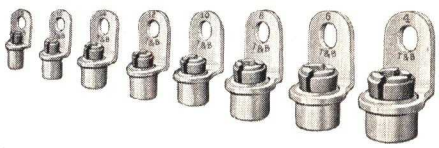
No. 27 Clip with No. 29 Insulator

Cat. No.	Description	Price Each
13	Flexible Ins. for Clips 11, 11-A	$0.54
23	Flexible Ins. for Clips 21, 21-A	.33
26	Flexible Ins. for Clips 24, 24-A	.23
29	Flexible Ins. for Clips 27, 27-C	.17
35	Flexible Ins. for Clip 33	1.42
47	Flexible Ins. for Clips 45, 45-C	.11
49	Flexible Ins. for Clips 48-B, 48-C, 82	.11
74	7MM. Flexible Insulator for Clip 95	.14
87	Flexible Ins. for Clips 85, 85-C and 85-T	.10
90	7MM. Flexible Insulator for Clip 27	.14
93-P	Plastic Insulator for Clip 88	.05

T & B "WEDGE-ON" DEVICES

T & B "WEDGE-ON" LUGS

Approved by Underwriters' Laboratories



Cat. No.	Wire Size	Carton	Std. Pkg.	Wt. Lbs. Per 1000	List Per 100
18L100	22 to 18 S. & S.	100	200	4½	$16.25
16L100	16 S. & S.	100	200	6½	16.25
14L100	14 S. & S.	100	200	8	16.25
12L100	12 S. & S.	100	200	10	18.75
10L100	10 S. & S.	100	200	11	21.25
9L101	(See Note)	100	200	15	25.00
8L100	8 S. & S.	50	200	21	27.50
6L100	6 Stranded	50	200	28	31.25
6SL100	6 Solid	50	200	28	31.25
4L100	4 Stranded	50	200	32	33.75
4SL100	4 Solid	50	200	32	33.75

Terminals of special sizes and shapes can be furnished. No. 9L101 takes 19 strands of No. 22 control wire.

"WEDGE-ON" TOOL



Especially designed for use with T & B "Wedge-On" Lugs, Splicers and Joints.

Cat. No.	For Terminal Sizes	Std. Pkg.	Wt. Lbs. Each	List Each
21000	8 to 16, Incl.	1	1½	$10.00
21001	8, 6 and 4	1	1½	10.00
21004	22, 18, 16, and 14	1	1½	10.00

SHERMAN SOLDERING LUGS



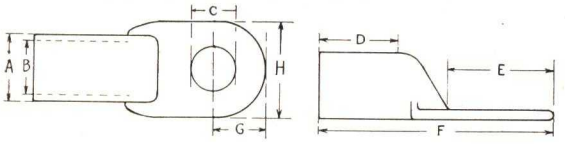
Lugs are seamless all around. The solder cannot leak out at the closed end. Also better conductivity is secured. Round end lugs in small sizes are recommended.

Approved by Underwriters' Laboratories.

1-Hole

Size Inches	Amp. Cap. Rubber Ins. Conductors N.E.C. Std.	Maximum Stranded Wire B. & S. Gauge	Carton Qty.	Approx. Weight Pounds per 1000
3/16	25	10	250	4
1/4	35	8	200	6
5/16	50	6	200	11
3/8	70	4	125	17
7/16	90	2	100	24
1/2	125	0	100	35
9/16	150	00	100	46
5/8	175	000	100	60
11/16	225	0000	50	80
13/16	250	*250000	25	120
15/16	325	*400000	Bulk	225
1	362	*450000	Bulk	285
1 1/16	400	*500000	Bulk	380
1 1/8	450	*600000	Bulk	420
1 3/16	550	*800000	Bulk	705
1 7/16	650	*1000000	Bulk	788
1 3/4	850	*1500000	Bulk	1470
2 1/16	1050	*2000000	Bulk	2765
2 7/8	1200	*3500000	Bulk	2765

Approximate Dimensions, Inches



A	B	C	D	E	F	G	H
3/16	.136	11/64	3/8	15/32	15/16	7/32	17/64
1/4	.186	13/64	3/8	1/2	1 1/32	7/32	3/8
5/16	.232	13/64	3/8	19/32	1 7/32	1/4	7/16
3/8	.286	9/32	7/16	11/16	1 11/32	9/32	17/32
7/16	.336	9/32	1/2	3/4	1 1/2	11/32	5/8
1/2	.407	11/32	5/8	13/16	1 3/4	13/32	3/4
9/16	.461	13/32	11/16	15/16	2	7/16	13/16
5/8	.511	13/32	25/32	1	2 1/8	1/2	29/32
11/16	.559	13/32	27/32	1 5/32	2 9/32	17/32	1 1/64
13/16	.688	13/32	31/32	1 1/4	2 5/8	5/8	1 5/16
15/16	.776	13/32	1 5/16	1 5/8	3 3/8	3/4	1 13/32
1	.82	13/32	1 1/4	1 3/4	3 7/16	13/16	1 1/2
1 1/16	.88	13/32	1 1/2	2 1/8	4 1/16	15/16	1 9/16
1 1/8	.943	13/32	1 5/8	2 1/4	4 7/16	1	1 11/16
1 5/16	1.084	17/32	2	2 1/2	5	1 1/8	1 15/16
1 7/16	1.210	29/32	2	2 1/2	5 3/8	1 3/16	2 1/8
1 1/4	1.460	1 1/32	2 3/8	3 1/8	6 5/8	1 7/16	2 5/8
2 1/16	1.660	1 1/32	2 5/8	3 5/8	7 1/2	1 5/8	3 1/16
2 7/8	2.500	1 1/32	------	4 1/4	10 3/4	1 3/4	4 1/2

*Circular mils. Sizes 1/4 to 13/16-inch furnished round end, unless otherwise specified. Sizes 5/16-inch and 11/16-inch and larger, furnished square end unless otherwise specified.

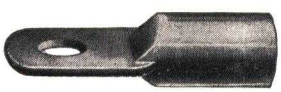
STUD HOLE—Lugs furnished with special size or location of stud holes at same prices as for regular lugs, with extra charge for each size.

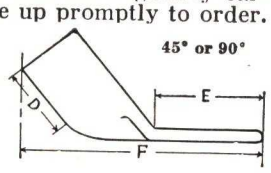
TINNING—Lugs tinned will be furnished at extra charge, depending on size.

MARKING—For identification, as approved fittings, lugs will be marked with letter S and Underwriters' rating in amperes, placed crosswise of the flat portion at wire end.

Center Formed and Angle Lugs

These types are standard but not regularly carried in stock. Will be made up promptly to order.





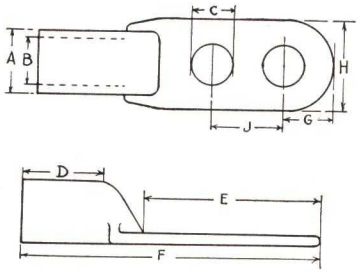
SHERMAN SOLDERING LUGS

2-HOLE



Two-hole lugs are made from seamless tubing and furnished square end, unless otherwise specified.

Flat portion (E) may be made to order either longer or shorter but tubular portion (D) cannot be changed.



Approximate Dimensions, Inches

Size Ins.	Amp. Cap. Rubber Insl. Conductors N.E.C. Std.	Approx. Dimen., Inches C	E	F	G	J	Approx. Weight Pounds Per 1000
3/16	25	5/32	3/4	1 7/32	5/32	3/8	5
1/4	35	3/16	7/8	1 13/32	3/16	7/16	8
5/16	50	7/32	1 1/16	1 3/4	1/4	1/2	14
3/8	70	1/4	1 1/4	1 29/32	3/16	5/8	23
7/16	90	9/32	1 3/8	2 1/8	5/16	11/16	34
1/2	125	11/32	1 11/16	2 5/8	3/8	7/8	46
9/16	150	13/32	2	3 1/16	7/16	1	68
5/8	175	13/32	2	3 1/8	7/16	1	90
11/16	225	13/32	2 1/8	3 1/4	1/2	1	115
13/16	250	17/32	2 5/8	4	5/8	1 1/4	218
15/16	325	17/32	2 3/4	4 1/2	11/16	1 1/4	270
1 1/16	400	21/32	3 1/4	5 3/16	13/16	1 1/2	420
1 1/8	450	21/32	3 3/8	5 5/16	7/8	1 1/2	475
1 5/16	550	25/32	3 15/16	6 7/16	1	1 13/16	845
1 7/16	650	29/32	4 3/8	7 1/4	1 1/8	2	1030
1 3/4	850	1 1/32	5 1/8	8 5/8	1 3/8	2 1/4	1850
2 1/16	1050	1 1/32	5 3/8	9 1/4	1 1/2	2 1/4	3200

Dimensions, except as noted, are the same as standard side formed Lugs.

General

At increased cost over standard lugs special features can be obtained as follows:

Stud Holes of special size or location.

Lengths, longer or shorter or special "E."

Annealing to permit bending.

Cadmium Plated, Rosin Dipping or Tinned all over.

Rosin Dipped or Tinned inside only.

Bright Dipped or Etched Finish.

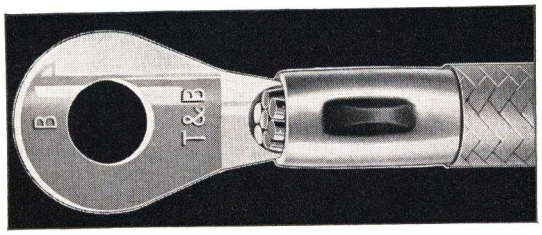
Welding Lugs—Have special hole in tongue end of socket.

Solderless Lugs.

Prices on application.

T & B STA-KON PRESSURE TERMINALS

Approved by Underwriters' Laboratories



Patented

There are a variety of Sta-Kon terminals made for each wire size from #22 to 250 M.C.M. Commercial AWG.

A secure mechanical grip on the wire is produced by the pressure of the stake-mark which runs parallel to the strands. Once installed, the Sta-Kon becomes a part of the wire itself. A highly conductive electrical connection is the result.

Sta-Kons are catalogued to permit quick and easy identification. Every Sta-Kon bears a letter to identify the wire sizes it will accommodate. (Example: all Sta-Kons in the "A" series are for wire sizes #22—#18 Commercial AWG.)

The Sta-Kon terminal has an oxygen free, high conductivity, copper tongue that comes into direct contact with the wire. The tongue runs half-round the entire length of the bronze barrel into which the wire is inserted. The complete terminal is hot-tinned.

The Sta-Kon hand or power operated tools apply the staking pressure, making an immediate electrical connection, which is mechanically as strong as the wire itself.

The female nest opposing the male staking die in the forged steel tool holds the barrel full round. The staking die forms an ample area of pressure parallel to the strands. The strands are compressed without harmful damage.

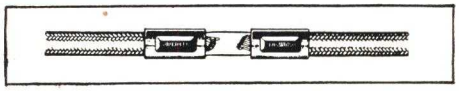
Cat. No.	Wire Size (Com'l AWG)	Std. Pkg.	Unit Quan.	Wgt. Per M	Bolt Size	Price Each
Standard Series—For Use with Stock Tools No. WT-111 and No. WT-115						
A18-6	#22 to #18	1000	100	1½	#6, #4	**$0.05**
A18-10	#22 to #18	1000	100	1½	#10, #8	**.05**
A18-14	#22 to #18	1000	100	3	¼	**.05**
B14-6	#16, #14	2000	100	2½	#6, #4	**.05**
B14-10	#16, #14	2000	100	3	#10, #8	**.05**
B14-14	#16, #14	2000	100	3½	¼	**.05**
C10-6	#12, #10	1000	50	4½	#6, #4	**.10**
C10-10	#12, #10	1000	50	5	#10, #8	**.10**
C10-14	#12, #10	1000	50	5½	¼	**.10**
C10-516	#12, #10	1000	50	7½	5/16	**.10**
D8-10	#9 to #7	500	25	10	#10, #8	**.10**
D8-14	#9 to #7	500	25	12	¼	**.10**
D8-516	#9 to #7	500	25	16	5/16	**.10**
E6-14	#6, #5	200	20	17	¼	**.15**
E6-516	#6, #5	200	20	20	5/16	**.15**
E6-38	#6, #5	200	20	20	⅜	**.15**
F4-14	#4, #3	200	20	24	¼	**.15**
F4-516	#4, #3	200	20	25	5/16	**.15**
F4-38	#4, #3	200	20	25	⅜	**.15**
G1-14	#2, #1	100	10	40	¼	**.20**
G1-516	#2, #1	100	10	47	5/16	**.20**
G1-38	#2, #1	100	10	45	⅜	**.20**
Standard Series for Larger Wires—For Use with No. 21076 and Power Tools						
H10-14	1/0	100	10	42	¼	**.35**
J20-38	2/0	100	10	60	⅜	**.40**
K30-38	3/0	50	5	82	⅜	**.45**
L40-38	4/0	50	5	110	⅜	**.45**
M250-38	250 MCM	50	5	135	⅜	**.50**

T & B STA-KON CONNECTORS

Approved by Underwriters' Laboratories and Other Approved Authorities

STA-KON TWO-WAY CONNECTORS

For Use with Stock Tools WT-111 and WT-115



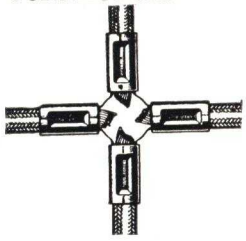
Cat. No.	Wire Size (Com'l AWG) Each End	Std. Pkg.	Unit Quan.	Wt. Lbs. Per 1000	Price Each
2A 18	#22 to #18	1000	100	2½	**$0.05**
2B 14	#16, #14	1000	100	3½	**.05**
2C 10	#12, #10	500	50	7	**.05**
2D 8	#9, #8, #7	250	25	19	**.10**
2E 6	#6, #5	200	20	27	**.10**
2F 4	#4, #3	150	15	38	**.15**

STA-KON FOUR-WAY CONNECTORS

For Use with Stock Tools WT-111 and WT-115

For use with Standard (A.W.G.) Code Wire. Will also fit any type or size of wire that will go in the barrel.

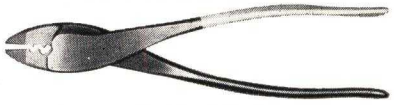
For three-way connectors remove one branch with cutting pliers.



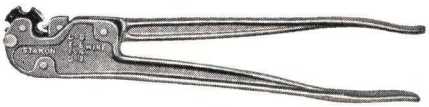
Cat. No.	Wire Size (Com'l AWG) Each End	Std. Pkg.	Unit Quan.	Wt. Lbs. Per 1000	Price Each
4A 18	#22 to #18	500	50	5	**$0.10**
4B 14	#16, #14	500	50	6	**.10**
4C 10	#12, #10	500	25	13	**.10**

Sta-Kon Pigtail Connectors—Inquiries are invited for Sta-Kon connectors for pigtailing or connecting wire ends.

STA-KON HAND TOOLS



No. WT-111-M

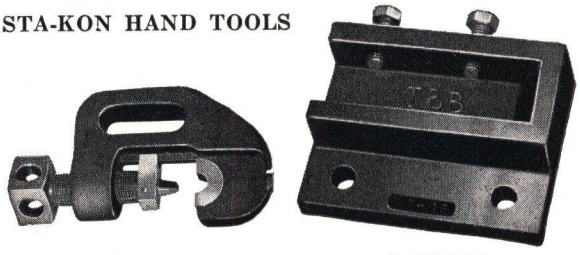


No. WT-115

Simple, fast operating and well balanced. Head of drop forged steel.

Cat. No.	Installs Terminals for Wire Sizes	Color of Handle	Std. Pkg.	Wt. Lbs. Each	Price Each
WT-111-M	#22 to #10	White	1	¾	**$5.00**
WT-115	#9 to #1	Black	1	4½	**31.00**

STA-KON HAND TOOLS



Cat. No.	Installs Terminals for Wire Sizes	No. WT-116 Std. Pkg.	No. WT-116 Wt. Lbs. Each	Price Each
21076	2, 1, 1/0, 2/0, 3/0, 4/0, 250 MCM	1	5	**$65.00**
WT116	Holder for WT-115 or 21076, for bench mounting	1	2½	**4.00**

T & B ASSORTMENT KIT STA-KON PRESSURE TERMINALS



Designed for your special use if you are an electrical contractor, a journeyman, an electrical appliance repair man, an autotmotive maintenance and repair man, oil burner repair man, airport service depot maintenance and repair man, or a worker in radio, telephone, signalling or electronics. For that matter, this handy Sta-Kon Kit is for any electrical man who is open to an easier and better way to hook up wires No. 22 through No. 10.

T&B Sta-Kon Terminals are Approved by Underwriters' Laboratories and U.S. Government authorities.

Each Kit Contains:

1. One carton each of three popular size Sta-Kon Terminals, packaged as you will find them in your T&B Distributor's shelf stock.
   100 pieces Cat. No. A18-10
   100 pieces Cat. No. B14-10
   50 pieces Cat. No. C10-10
2. T&B engineered, but simple Sta-Kon Terminal Installing Tool, No. WT111.
3. One small, well-illustrated leaflet, showing how easy it is to button-up small wires with Sta-Kon Terminals, and one Price Sheet No. 2-E.
4. One 8-page Price Sheet No. 2-E, describing other types and sizes of Sta-Kon Terminals for modern wiring. Also, information about the complete line of T&B portable and bench model power tools for production line assembly.

Price, No. **20** Assortment Kit.....each **$10.00**

T & B PARALLEL CONNECTORS

TYPE PC CONNECTORS

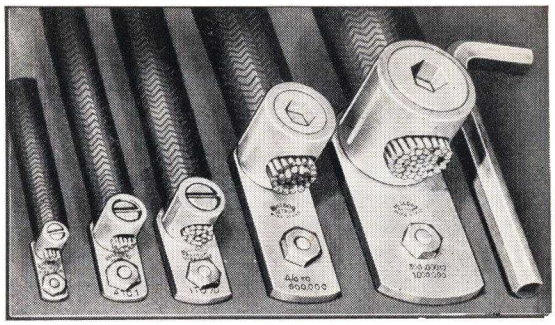


Handy, low-priced connectors for joining the ends of solid or stranded wires. They can be used for connections of service runs to drops, at motor outlets, for splicing wires in cabinets, etc. The screw cannot touch the wires —the built-in contact shield is curved and corrugated for maximum conductivity and strength. All-bronze construction; Underwriters' Approved.

Cat. No.	Wire Sizes Max.	Wire Sizes Min.	Overall Dimens. Hgt	Overall Dimens. Wdth	Std. Pkg.	Price Per 100
PC-8	2 No. 8	2 No. 10	17/32	7/16	100	**$27.50**
PC-6	2 No. 6	2 No. 8	5/8	1/2	100	**30.00**
PC-4	2 No. 4	2 No. 6	25/32	5/8	100	**45.00**
PC-2	2 No. 2	2 No. 4	29/32	11/16	100	**60.00**

BULLDOG WIRE GRIPS

Listed as Standard by Underwriters' Laboratories



BullDog Wire Grips are cold-press shaped from pure electrolytic copper, preserving the copper's tensile strength. They can take all the clamping pressure necessary to firmly anchor a wire. Have clear wire holes.

Wire Grips

Cat. Nos. Front Connected	Cat. Nos. Back Connected	Max. Wire Sizes	Max. Amps.	Wt. Lbs. Carton Qty.	Wt. Lbs. Carton Qty.	List Price Each in Car. Qty.
3021†	**3021BC**	No. 4	70	250	6	**$0.24**
3031‡	**3031BC**	No. 1	100	100	8	**0.42**
3041‡	**3041BC**	No. 4/0	225	50	7	**0.80**
3052‡	**3052BC**	¶	400	10	8	**2.66**
3062‡	**3062BC**	#	650	5	8	**5.08**
Twin Wire Grips						
3221†	.....	2 No. 4	70	100	5	**0.84**
3231‡	.....	2 No. 1	100	50	8	**1.34**

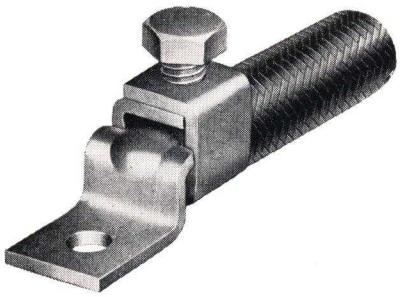
Socket Wrenches for Wire Grips

Cat. No.	For Wire Grip Nos.	List Price Each
303SW	3031-3041-3231	**$0.33**
306SW	3052-3062	**0.88**

¶500,000 cm. #1,000,000 cm. †Tightens with screwdriver. ‡Tightens with socket wrench.

T & B "LUG-IT" FOR STRANDED OR SOLID WIRE

Approved by Underwriters' Laboratories



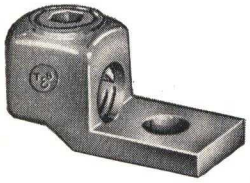
Double thickness at thread gives double thread strength and locking action. Serrated copper tongue gives high conductivity. Bronze body provides strength. All parts are electro-tinned for enduring contact.

Cat. No.	Wire Range Min.	Wire Range Max.	Bolt Size	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Price Each
35301	14	6	1/4	250	1000	24	**$0.10**
35401	8	2	1/4	250	1000	50	**.15**
35501	4	2/0	1/4	100	500	115	**.30**
35601	1/0	4/0	3/8	25	100	225	**.50**

T & B "LOCK-TITE" LUGS AND CONNECTORS

LOCK-TITE LUGS

Approved by Underwriters' Laboratories



Seven overlapping sizes fit all cables — No. 4 through 1,000,000 C.M.

Fits any kind of cable — solid, stranded, flexible, hemp-core, etc.

Resists vibration, because it is locked tight.

One piece design — has no loose parts. Can be used over and over again.

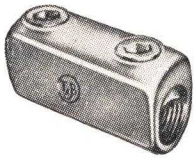
Cat. No.	Description	No. Bolt Holes	Price Each	Use Key Wrench Cat. No.
31007	4 Sol. to 1 Str.	1	**$0.70**	30
32007	4 Sol. to 1 Str.	2	**.90**	30
31009	1 Sol. to 2/0	1	**1.10**	30
32009	1 Sol. to 2/0	2	**1.30**	30
31011	2/0 to 4/0	1	**1.50**	30
32011	2/0 to 4/0	2	**1.70**	30
31013	4/0 to 300,000 C.M.	1	**1.90**	50
32013	4/0 to 300,000 C.M.	2	**2.10**	50
31015	300,000 to 500,000 C.M.	1	**2.90**	50
32015	300,000 to 500,000 C.M.	2	**3.30**	50
31017	500,000 to 750,000 C.M.	1	**5.00**	50
32017	500,000 to 750,000 C.M.	2	**5.00**	50
31019	750,000 to 1,000,000 C.M.	1	**5.80**	50
32019	750,000 to 1,000,000 C.M.	2	**6.40**	50

For Hex-head screw, prefix above numbers with "H." Prices are same for both types. Special connectors can be supplied. Prices and information on request.

"LOCK-TITE" TWO-WAY CONNECTORS

Listed Under Reexamination Service of Underwriters' Laboratories

For Hex-Head Screws instead of Socket Screws prefix the Cat. No. with "H." Prices are the same for either type.



Cat. No.	Cable Size	Price Each
32507	4 Solid to 1 Stranded	**$3.60**
32509	1 Solid to 2/0	**5.00**
32511	2/0 to 4/0	**6.20**
32513	4/0 to 300,000 C.M.	**8.60**
32515	300,000 C.M. to 500,000 C.M.	**9.00**
32517	500,000 C.M. to 750,000 C.M.	**11.60**
32519	750,000 C.M. to 1,000,000 C.M.	**14.00**

KEY WRENCHES

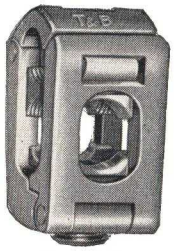


For use with Lock-Tite Lugs and Connectors, all sizes.

Cat No.	Fits Lock-Tite Lugs	Price Each
30	31007, 32007, 31009, 32009, 31011, 32011	**$0.20**
50	31013, 32013, 31015, 32015, 31017, 32017, 31019, 32019	**.30**

T & B "LOCK-TITE" TEE-PARALLEL TAPS

Listed Under Reexamination Service of Underwriters' Laboratories



Patented

These fittings can be used as either a tee or parallel tap. Each tap has a wide range of cable sizes. The one-piece design—no detachable parts — allows easy assembly to main and branch.

In this listing, the Main indicates the size of cable running through the tap, the Branch the size of cable to be connected to the main.

Cat. No.	Cable Size — Main	Cable Size — Branch	Price Each
35003	1/0 to 4/0	No. 2 Sol. & Str. to No. 1	**$1.80**
35005	1/0 to 4/0	1/0 to 4/0	**2.40**
35007	4/0 to 300 MCM	No. 2 Sol. & Str. to 1/0	**2.20**
35009	4/0 to 300 MCM	2/0 to 300 MCM	**3.00**
35011	300 MCM to 500 MCM	No. 2 Sol. & Str. to 3/0	**3.90**
35013	300 MCM to 500 MCM	4/0 to 500 MCM	**5.20**
35015	500 MCM to 750 MCM	No. 2 Sol. & Str. to 3/0	**5.50**
35017	500 MCM to 750 MCM	4/0 to 500 MCM	**7.00**
35019*	500 MCM to 750 MCM	500 MCM to 750 MCM	**8.60**
35021	750 MCM to 1000 MCM	No. 2 Sol. & Str. to 3/0	**6.50**
35023	750 MCM to 1000 MCM	4/0 to 500 MCM	**8.40**
35025*	750 MCM to 1000 MCM	500 MCM to 750 MCM	**11.00**
35027*	750 MCM to 1000 MCM	750 MCM to 1000 MCM	**13.20**

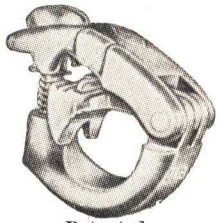
*These sizes supplied with two clamping screws instead of as illustrated.

T & B "HINJON" JUNIOR TEE-PARALLEL TAP

For Mains No. 8 to 1000 MCM—For Small Wire Branches No. 14 to No. 1

Listed Under Reexamination Service of Underwriters' Laboratories

Twelve fittings take No. 8 to 1,000,000 on main and No. 14 to No. 1 on the branch. Branch can be installed from either side. Fittings are clearly marked to show range of main and branch. Installed with a screw driver, give positive contact, create tremendous pressure on the cable.



Patented

Will take any type wire, cable, or tubing, that will go into the fitting. Made of high conductivity bronze, these twelve fittings make a neat, compact and certain job. Simply skin the main, insert the branch and tighten. Tightening locks the threads —vibration-proof.

Cat. No.	Cable Size — Main	Cable Size — Branch	List Price Each
35107	No. 8 to No. 4	No. 14 to No. 8	**$0.85**
35108	No. 8 to No. 4	No. 8 to No. 4	**.90**
35109	No. 4 to 1/0	No. 14 to No. 4	**1.00**
35110	No. 4 to 1/0	No. 4 to No. 1	**1.20**
35111	1/0 to 4/0	No. 14 to No. 4	**1.40**
35112	1/0 to 4/0	No. 8 to No. 1	**1.50**
35113	4/0 to 300 MCM	No. 14 to No. 4	**1.60**
35114	4/0 to 300 MCM	No. 8 to No. 1	**1.80**
35115	300 MCM to 500 MCM	No. 14 to No. 4	**2.30**
35116	300 MCM to 500 MCM	No. 8 to No. 1	**2.80**
35118	500 MCM to 750 MCM	No. 14 to No. 1	**3.60**
35120	750 MCM to 1000 MCM	No. 14 to No. 1	**4.80**

T & B STA-KON WIRE JOINTS



Permanent safety for both circuit and fixture wires. Installation is as quick and easy as shaking hands — with standard WT-111M Sta-Kon Hand Tool.

Approved by Underwriters' Laboratory for both fixture and circuit wires without taping.

Insulator is made of strong thermosetting phenolic. Vibration-proof. No soldering. No taping necessary.

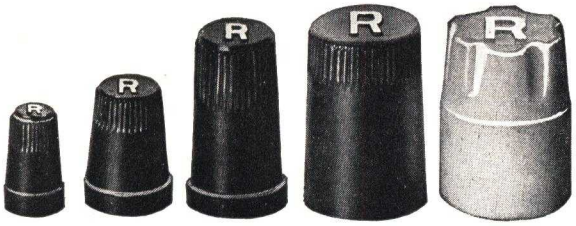
The barrel of the Sta-Kon Joint is made of tough bronze, electro tin coated. Both ends of barrel are open for visual inspection to insure that wires are fully inserted. Any excess wire is easily snipped off with cutter on standard tool.

Takes wide range of popular wire sizes. The T&B Sta-Kon Joint is part of the famous Sta-Kon Line of Pressure (solderless) Connectors and Splices for wire sizes No. 22 to 250 MCM Commercial AWG. All are approved by Underwriters' Laboratories.

Cat. No.	Description	Unit Quan.	Std. Pkg.	Wt. Lbs. Per M	Price Per 1000
PT 66	Connector and Insulator	100	1000	8½	**$100.00**
PT 60	Connector Only..	100	1000	6	**45.00**
PT 6	Insulator Only ..	100	1000	2½	**60.00**

MARR WIRE CONNECTORS

(Cap Made of Bakelite)



No. 00 **No. 0** **No. 1** **No. 2** **No. 7 (Porcelain)**

Twist or place the wires together in connector and set down the screw. Clip off protruding ends if any. Slip over the bakelite insulation. Screw it tight and the job is done. Made in five sizes.

No. 00

For Following Wires:

Approx. Shpg. Wt. Lbs. per 1000

Nos. 16, 18. 2 No. 16 or 3 No. 18 Combinations 5

No. 0

Nos. 14, 16, 18. 2 No. 14 and 2 No. 18, 4 No. 16, 5 No. 18 Twisted, 7 No. 18 Straight Combinations 8

No. 1

Nos. 12, 14, 16. 2 No. 12 and 2 No. 18, 3 No. 14 and 1 No. 18, or 6 No. 16 Combinations 13

No. 2

Nos. 10, 12, 14. 4 No. 12, 6 No. 14, 2 No. 10 and 1 No. 14 Combinations..... 24

No. 7

Nos. 10, 12, 14. 4 No. 12, 6 No. 14, 2 No. 10 and 1 No. 14 Combinations..... 32

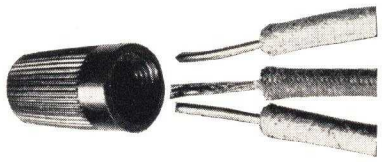
Carton quantity, 100; standard package quantity, 1000.

Prices on request.

IDEAL "WIRE-NUTS

SOLDERLESS—TAPELESS WIRE CONNECTORS

Underwriters Approved



1. Strip wire. 2. Screw on — that's all. "Wire-Nut" threads on to wire just like a nut on a bolt. The coil shaped spring insert presses (does not cut) clean threads into the stripped wires as the Connector is applied. Wires are tightly compressed and automatically twisted together by powerful grip. Molded composition shell completely protects against shorts, grounds and corrosion such as develop in loose solder and tape connections. Millions in use. Listed by Underwriters' Laboratories, Inc. A size for every need — solid or stranded.

Cat. No.	Size		Price Per 100	Price Per 1000
30-015	71B	No. 16 & No. 18 up to 3 No. 18; 1 No. 16 & 1 No. 18.....	.....	**$10.73**
30-017	73B	No. 14, 16 & 18 AWG up to 2 No. 14 and 1 No. 18 or 5 No. 18....	**$1.60**	**14.67**
30-018	74B	No. 12, 14, 16 & 18 AWG up to 2 No. 12 and 1 No. 18; 4 No. 14 and 1 No. 18.....	**2.00**	**18.67**
30-019	76B	No. 10, 12, 14, 16 and 18 AWG up to 3 No. 10 with 1 No. 18; 4 No. 12 with 2 No. 18; 6 No. 14 with 2 No. 18	**3.27**	**30.06**

EXCEL PORCELAIN WIRE CONNECTOR



Approved by Underwriters' Laboratories, Inc. Made in one piece, high grade porcelain.

Perfect for roughing in fixture hanging and many other electrical connections.

No. G-3 30-008 (small size) joins combinations of solid and stranded wires up to and including 2 No. 18 and 2 No. 14.

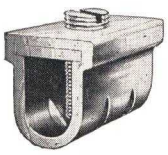
Price, No. **30-008**....per 100 **$0.93**; per 100....**$8.33**

No. G-5 (large size) joins combinations of solid and stranded wires up to and including 4 No. 14.

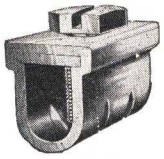
Price, No. **30-009**....per 100 **$1.07**; per 1000 **$9.53**

SHERMAN WEDGE-GRIP WIRE CONNECTORS

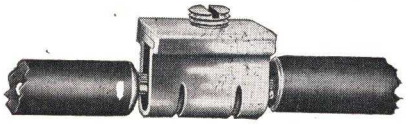
For Service Entrance and All Small Wire Connections



SC-6



SC-6X



Assembly (Pat. 2015896)

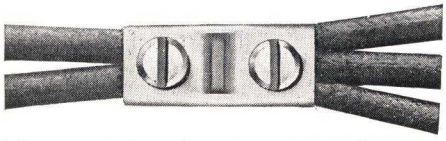
Copper body, bronze screw. The screw cannot come out. Two types of screws. Wide range of wire capacity.

Plain Screw	Hex. Head Screw	B & S Wire Maximum	B & S Wire Minimum	Carton	Wt. Lbs. Per 1000
	SC-12X	2-12 Solid	2-20 Solid	100	10
SC-6	SC- 6X	2- 6 Strand	2-12 Solid	100	25
	SC -4X	2- 4 Strand	2- 8 Solid	100	38
	SC- 2X	2- 2 Strand	2- 4 Solid	50	47

Prices on application.

SHERMAN FIXTURE CONNECTORS

BRONZE—NO TORCH TYPE

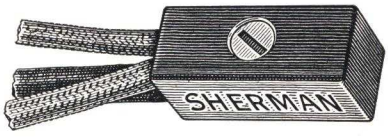


Widely used for fixture connections, motors, neon signs, etc. One group of wires can be disconnected without disturbing others. Connects all wires up to No. 12 either end. Packed 100 per carton or bulk.

Approved by Underwriters' Laboratories.

Cat. No.	Carton Quantity	Standard Package Quantity	Wt. Lbs. Per 1000
501	100	500	25

INSULATED COLOR-CODED TYPE



Red for hot wires — white for switch or ground wires. Made of durable, insulating "Vinylite." Connector fits easily into canopies and fixture bodies as well as outlet boxes. Packed 100 in carton all one color.

Part No.	Wt. Lbs. Per 1000	Carton Quantity	Std. Pkg. Quantity
503 R	9	100	1000
503 W	9	100	1000

No. 504 MIDGET BRASS SCREW TYPE CONNECTOR



Genuine all brass construction. The snubbing action of screw securely holds and makes positive contact. The fine pitch threads will not shake loose. Carton quantity, 500; weight pounds per 1000, 5 lbs.

Prices on application.

SHERMAN SET SCREW CONNECTORS

Number plainly stamped on each connector. A great help in re-ordering and saves much time and possible mistakes in sorting small mixed stocks.

Screws heavily galvanized, hence rust-proof. This prevents rusting in dealer's stock, and enables consumer to use connectors over again when removed from temporary work.

Neatly boxed and plainly labeled. Insuring neat shelf stock.

These connectors are made from solid brass rod; all dimensions and proportions are carefully held to accurate size.

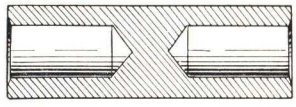
Four-screw connectors are made also with hole clear through, and two-screw connectors can be furnished in divided wall style.

FOR STRANDED CABLE

With Divided Wall



No. 74 Connector



Showing Interior Construction

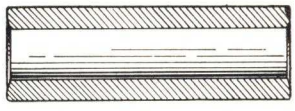
Cat. No.	Size Stranded Cable	Screws	Diam. Hole In.	Outside Diam. In.	Length In.	Std. Pkg.	Wt. Lbs. Std. Pkg.
60	12, 14	2	.110	1/4	1 1/4	200	4
62	10	4	.140	5/16	1 1/2	200	7
64	8	4	.160	5/16	1 1/2	200	6 1/2
66	6, 7	4	.218	25/64	1 1/2	150	7
68	4, 5	4	.265	7/16	1 7/8	100	7
70	2, 3	4	.312	1/2	1 7/8	100	9
71	0, 1	4	.390	9/16	2 1/4	50	5 1/2
72	00	4	.437	5/8	2 1/2	50	7 1/2
73	000	4	.500	3/4	2 7/8	25	6 1/2
74	0000	4	.562	7/8	2 7/8	25	9 1/4

FOR SOLID AND STRANDED CABLE

Wire Holes Extending Clear Through



No. 5 Connector



Showing Construction

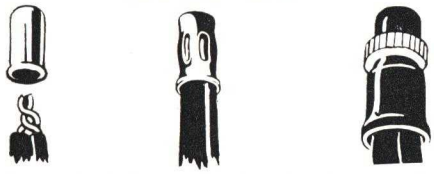
Cat. No.	Max. Solid	Wire Str.	Screws	Diam. Hole In.	Outside Diam. In.	Lgth. In.	Std. Pkg.	Wt. Lbs. Std. Pkg.
0	12	.....	2	.106	5/16	1 1/2	100	3 3/4
1	8	9	2	.147	5/16	1 1/2	100	3 1/2
2	6	7	2	.185	3/8	1 3/4	100	5
3	4	5	2	.228	7/16	1 7/8	100	7
4	2	3	2	9/32	1/2	1 7/8	100	8 1/2
5	0	1	2	11/32	9/16	1 7/8	50	5
6	00	0	2	3/8	5/8	1 7/8	50	6
7	4	5	4	.228	7/16	1 7/8	100	7 1/2
8	2	3	4	9/32	1/2	1 7/8	100	9
9	0	1	4	11/32	9/16	1 7/8	50	5 1/2
10	00	0	4	3/8	5/8	1 7/8	50	6 3/4
11	000	00	4	7/16	11/16	2	50	7 1/2
12	0000	000	4	1/2	3/4	2	50	8 1/2
13	.....	0000	4	9/16	7/8	2 3/16	25	3 3/8

BUCHANAN SOLDERLESS CONNECTORS

"SPLICE CAPS" AND "TERMEND" LUGS
For Stranded or Solid Wire

The Buchanan Splice Caps with insulators eliminate costly, bulky solder equipment and the danger of shorts and grounds from punctured tape on soldered joints or from loose fixture type connectors. With Termend Lugs, installable with same tools, they provide for all wire connections which are mechanically and electrically perfect.

SPLICE CAPS

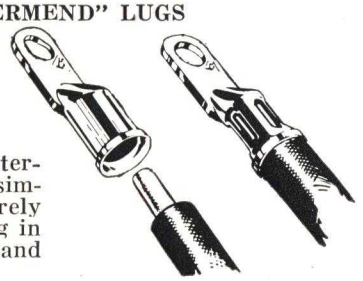


A completely insulated splice in three easy steps. (1) Place splice cap in tool and insert twisted wires. (2) Close tool to crimp. (3) Snap on insulator and turn up locking ring.

Splice Caps

Cat. No.	For Wire Sizes	Use Tool No.	Unit Pkg.	Shpg. Wt. Lbs. Per 1000	Price Per 100
2001	(2)-20 to (2)-14	S9	1000	1	**$0.55**
2004	(2)-18 to (3)-12	S10	500	2½	**.90**
2011	(5)-14 to (2)-6	S11	250	5¼	**2.60**
	Insulators for Splice Caps				
2005	For No. 2004	S10	500	2¾	**1.10**
2012	For No. 2011	S11	250	7	**2.60**

"TERMEND" LUGS



For terminating No. 16 to No. 8 A.W.G.

A perfect wire termination in one simple operation. Merely place Termend Lug in tool—insert wire and close tool.

Cat. No.	For Wire Sizes	Use Tool No.	Unit Pkg.	Shpg. Wt. Lbs. Per 1000	Price Per 100
16-8-6	(1)-16 to (1)-8	S10	250	4¾	**$2.00**
16-8-8	(1)-16 to (1)-8	S10	250	4¾	**2.00**
16-8-10	(1)-16 to (1)-8	S10	250	4¾	**2.00**
16-8-¼	(1)-16 to (1)-8	S10	250	4¾	**2.00**

SPADE TYPE "TERMEND" LUGS



Plain Type **Locking Type**

Plain Spade Type

Cat. No.	For Wire Sizes	Use Tool No.	Unit Pkg.	Wt.Lbs. Per 1000	Price Per 100
16-8-6S	(1)-16 to (1)-8	S10	250	4	**$2.25**
16-8-8S	(1)-16 to (1)-8	S10	250	4	**2.25**
16-8-10S	(1)-16 to (1)-8	S10	250	4	**2.25**
	Locking Spade Type				
16-8-6SL	(1)-16 to (1)-8	S10	250	4	**2.25**
16-8-8SL	(1)-16 to (1)-8	S10	250	4	**2.25**
16-8-10SL	(1)-16 to (1)-8	S10	250	4	**2.25**

BUCHANAN SOLDERLESS CONNECTORS

CRIMPING TOOLS



Both Splice Caps and Termend Lugs are easily and quickly installed with Crimping Tool.

Illustrations, left to right, show how the uniform converging action of the 4 plungers in the Buchanan Tool draws connector and conductors together to form a solid permanent unit.

Cat. No.	For Installing—Splice Cap	For Installing—Termend Lugs	Unit Pkg.	Wt. Lbs. Each	Price Each
S-9	2001	——	1	¾	**$7.00**
S-10	2004	All 16-8 Series	1	¾	**7.00**
S-11	2011	——	1	¾	**7.00**

PENN-UNION COPPER SERVICE CONNECTORS

POWER AND SERVICE ENTRANCE TYPES



An electrical and mechanical solderless connection for making solderless line taps, on primary, secondary, service and transformer lines.

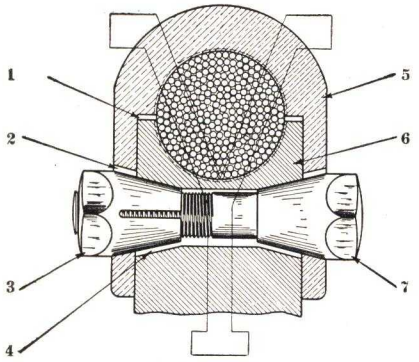


Power Type

Cat. No.	Wire Size—Copper—Solid	Copper—Stranded	*3-Stranded	Aluminum Solid	Price Each
S-10-H	10	.....	.....	.....	**$0.13**
S-8-H	8	.....	.....	.....	**.14**
S-6-H	6	7	8A	.....	**.15**
S-4-H	4	5	6A	.....	**.17**
S-3-H	2	3	4A	.....	**.24**
S-2-H	1	2	.....	.....	**.26**
S-1/0-H	2/0	1/0	2A	.....	**.35**
S-2/0-H	3/0	2/0	.....	.....	**.57**
S-4/0-H	.....	4/0	.....	.....	**.97**
S-350-H		350000 cm		.....	**1.90**
S-500-H		500000 cm		.....	**2.47**
S-1000-H		1000000 cm		.....	**5.89**
C-4-A	.....	.....	.....	4	**.33**
C-2-A	.....	.....	.....	2	**.39**
C-1/0-A	.....	.....	.....	1/0	**.79**
	Service Entrance Type				
SX-12	.....	12	.....	.....	**.06**
SX-10	.....	10	.....	.....	**.10**
SX-6	.....	6	.....	.....	**.11**
SX-4	.....	4	.....	.....	**.13**

*Copperweld.

NATIONAL "GORILLA GRIP" TYPE "Y" TERMINAL UNIT



PATENTED
U. S. Patent No. 2,046,942
Other Patents Pending

1. Ample Clearance Provides Wide Take-Up.
2. Conical Hole in Yoke.
3. Tapered Nut (Slotted).
4. Conical Hole in Body.
5. Yoke.
6. Body.
7. Tapered Head-Bolt.

The Type Y "Gorilla Grip" Terminal Unit comprises a yoke and body providing contact with the full periphery of the conductor, excepting the small sections allowed for take-up. Clamping pressure is obtained by means of a tapered head bolt and tapered nut, which operate in conjunction with eccentrically-aligned, conically-shaped holes in the yoke and body.

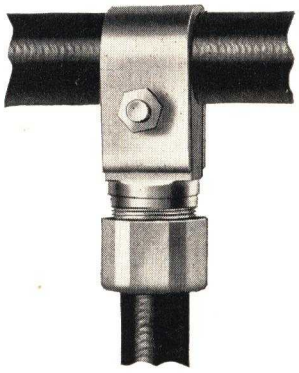
This departure from conventional bolt and nut design is a striking feature wherein the functional means produces pressure on the conductor greatly in excess of pressure that might be obtained within the stress limits of an ordinary bolt, and simultaneously locks the parts in permanent position.

Another unique feature is that pressure is uniformly distributed throughout the full contact area, which condition does not obtain with ordinary bolts, particularly when used in multiple.

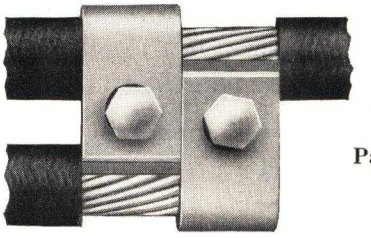
In the initial assembly the conical hole in the yoke is eccentric to the conical hole in the body. The tapered head of the bolt and the tapered nut engage the upper side of the hole in the body and the lower side of the hole in the yoke. As the nut is tightened the body and yoke are drawn together. The hole in the body is enough larger than the bolt to allow proper take-up. The bolt is subjected to shear stress across its strongest section, but is entirely free from bending strains.

The bolt head and nut when screwed "finger tight" grip the body and the yoke so that the tightening operation then may proceed from either end without holding the opposite end. This friction grip in itself provides a definite locking action. The slotted end of the nut when tightened binds on the bolt threads and further insures a permanent connection.

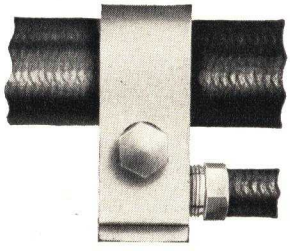
Popular Uses of the Type "Y" Terminal Unit



GY
90° Cable Tap



PY
Two, Three and Four-Way Parallel Cable Taps



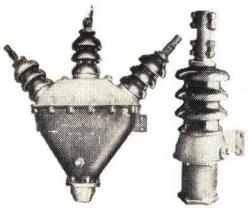
YSZ
Two-Way Parallel Cable Tap



Y
Square Flange Lug 2-Bolt

RUSGREEN PRODUCTS

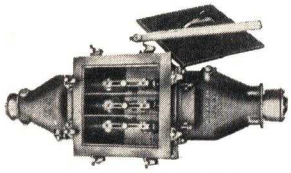
ENDULATORS (Potheads)



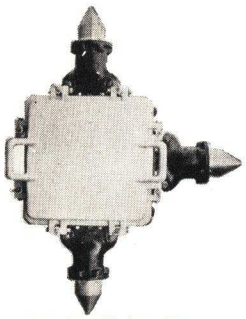
Left: 3-Conductor Angle Shape Pothead
Right: Single-Conductor Pothead

Made from finest materials to meet all existing standards or any special requirements. Furnished in Outdoor, Indoor, Capnut, Disconnect, Cutout, Transformer and other types, all shapes and sizes, for all voltages. All insulators are of highest quality wet-process, brown-glazed porcelain. Types available for single or multiple conductor, and full equipment includes: cable clamp, conduit coupling, stuffing box, wiping sleeve types of entrances.

PRIMARY SECTIONALIZING AND DISTRIBUTION BOXES



Disconnecting Box



Sectionalizing Box

Made in all types and descriptions, for all purposes. Standard boxes, also fabricated to special requirements. Splice boxes, airport boxes, pull boxes, also available.

SOLDERING LUGS AND TERMINALS



Single-Hole Lug



Two-Hole Lug

Cast or tubular drawn from heaviest-gauge pure electrolytic copper. Listed as standard by Underwriters' Laboratories and meet Government Aircraft Specifications AN or AC No. 660.

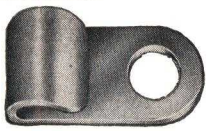
Single-Hole Lugs are available from stock with round or square ends, in 25 to 250-amp. ratings, for conductors from No. 10 to 250,000 CM., and with square end only, in 325 to 1050-amps., for 400,000 to 2,000,000 CM.

Two-Hole Lugs can be furnished in round or square ends, and of the same high quality and workmanship as the single-hole lugs. A complete range of sizes from 25-amp., through 1050-amp. is available with two holes or with long blank shanks. Special Lugs such as Angle, Center Formed, Nema-Nela, and Nela Heavy Duty Lugs also available.

AIRCRAFT TERMINALS



Light Soldering Lugs



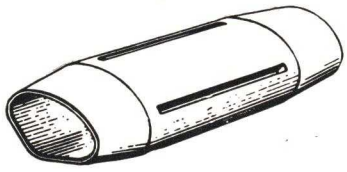
Terminal — Rolled Type

A complete range of sizes as shown on Air Corps Specification 660. Produced in copper or brass and in sheet metal or heavy duty tubular types. All sizes available for immediate shipment.

Prices and complete information on request.

RUSGREEN PRODUCTS

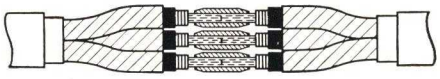
SECONECS



Patented connectors for use on sector-shaped cables, furnished in any size. Seconecs can be fitted on the conductors in their original sector shape, without disturbing the insulation or creating voids. Slots are so arranged that they receive solder from any angle, enabling all crevices to be filled. Joints completed with Seconecs are smaller and more compact.

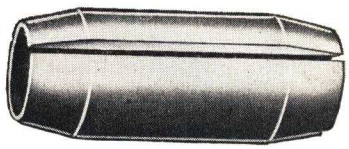
UNIT PACKAGE CABLE SPLICING KIT





A convenient single package for making a complete underground cable splice. Contains everything required for splicing cable — from the Split Tinned Copper Connector for joining the bare cables to the Lead Sleeve for covering the entire joint — an economical method of cable splicing right on the job, eliminating danger of material shortages as well as waste because of an excessive quantity of a single item. Also solves purchasing problem of buying various items from many sources. Specify cable diameter, number and size of conductors, and operating voltage, when ordering.

SPLIT-TINNED COPPER CABLE SLEEVES



Made from high-conductivity seamless copper tubing to specifications prepared by an N.E.L.A. (now E.E.I.) Committee.

Designed with beveled ends for splicing underground cable. Surfaces are free from burrs and smoothly tinned. Furnished dead soft, and can be used with either round or sector cable. No. 10 to 2,500,000 CM. Stranded; No. 14 to 4/0 solid.

BUS SUPPORTS AND CLAMPS



Bus Clamps



Bus Support

Rusgreen Bus Supports can be furnished for either flat or pipe mounting. Only the highest quality porcelain insulators are used on this product. Available in outdoor and indoor types and for primary and secondary installations. Any type bus fitting available, i.e., for tubular or flat conductors and for horizontal or vertical clamping of flat bus. Standard in design and conform to accepted specifications.

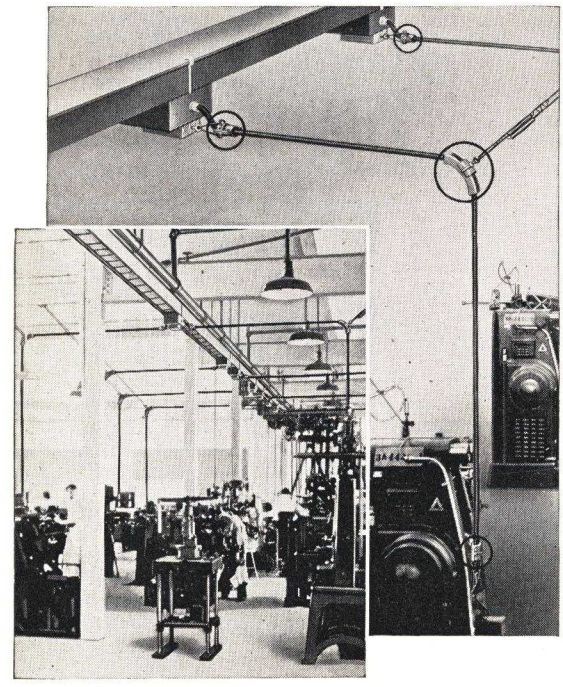
Prices and complete information on request.

APPLETON CABLE CLAMPS

FOR EXPOSED INDUSTRIAL WIRING

Designed for Use in Making Branch Feeder Installations without the Use of Rigid Conduit (Heavy-wall)

Patented Sept. 26, 1944 Patent No. 2,358,946





Quarter-bend Cable Clamp. Eye-bolt is for proper suspension and sectional view shows adjustable clamping arrangement.

Connector



Mooring Cable Clamp

These Cable Clamps have been developed to provide a suitable support for branch feeders from the main distribution system. The flexibility of arrangement and mounting is especially desirable for mass machinery installations in modern war plants.

The Quarter-bend Cable Clamp provides the proper bending radius without injury to the cable. The Mooring Clamp is used to anchor cable at supply and output ends without undue strain on cable line.

The sweep of the Quarter-Bend Clamp is of sufficient length to make proper bend in cable sizes for which clamps are designed.

Made from unbreakable malleable iron.

APPLETON CABLE CLAMPS

FOR EXPOSED INDUSTRIAL WIRING

Designed for Use in Making Branch Feeder Installations without the Use of Rigid Conduit (Heavy-wall)

QUARTER-BEND CABLE CLAMPS

Cat. No.	Takes Power Cables Sizes in AWG, or CM.	Wt. Lbs. Per 100
18890	1-8, 1-6, 1-5, 1-4, 1-3, 2-14, 2-12, 3-18, 3-16, 3-14, 4-18, 4-16, 4-14	166
18891	1-2, 1-1, 1-1/0, 1-2/0, 2-10, 2-8, 3-12, 3-10, 3-8, 4-12, 4-10, 4-8	183
18892	1-3/0, 1-4/0, 1-250M, 2-6, 2-5, 3-6 4-6, 4-5	
18893	1-300M, 1-400M, 1-500M, 2-4, 2-3, 2-2, 2-1, 3-5, 3-4, 3-3, 3-2, 4-4, 4-3	275

MOORING CABLE CLAMPS

Cat. No.	Takes Power Cables Sizes in AWG, or CM.	Wt. Lbs. Per 100
18895	1-8, 1-6, 1-5, 1-4, 1-3, 2-14, 2-12, 3-18, 3-16, 3-14, 4-18, 4-16, 4-14	50
18896	1-2, 1-1, 1-1/0, 1-2/0, 2-10, 2-8, 3-12, 3-10, 3-8, 4-12, 4-10, 4-8	75
18897	1-3/0, 1-4/0, 1-250M, 2-6, 2-5, 3-6, 4-6, 4-5	100
18898	1-300M, 1-400M, 1-500M, 2-4, 2-3, 2-2, 2-1, 3-5, 3-4, 3-3, 3-2, 4-4, 4-3	125

CONNECTORS

Cat. No.	Takes Power Cables Sizes in AWG. or CM.	Fits K.O.	Wt. Lbs. Per 100
15233	1-8, 1-6, 1-5, 1-4, 1-3, 1-2, 1-1 2-14, 2-12, 2-10, 2-8, 3-16, 3-14, 3-12, 3-10, 4-18, 4-16, 4-14, 4-12, 4-10	¾"	20
15234	1-1/0, 1-2/0, 1-3/0, 2-6, 3-8, 4-8	1"	24
15235	1-4/0, 1-250M, 1-300M, 1-400M, 1-500M, 2-5, 2-4, 2-3 2-2, 2-1, 3-6, 3-5, 3-4, 3-3, 3-2, 4-6, 4-5, 4-4, 4-3	1¼"	27

Schedule "CFS" Discounts

PORCELAIN TUBES

STANDARD — UNGLAZED



Length Inches	Size Hole Inches	Outside Diam. Inches	Std. Pkg.	Wt. Lbs. Per 1000	Price Per 1000 Pieces
2	5/16	9/16	7000	45	**$19.00**
2½	5/16	9/16	5500	58	**21.00**
3	5/16	9/16	4500	62	**23.00**
4	5/16	9/16	3600	80	**30.00**
5	5/16	9/16	2900	100	**39.00**
6	5/16	9/16	2000	118	**50.00**
3	3/8	11/16	3100	107	**30.00**
4	3/8	11/16	2000	117	**40.00**
5	3/8	11/16	1900	142	**50.00**
6	3/8	11/16	1500	183	**60.00**
8	3/8	11/16	1200	225	**105.00**
4	1	1 7/16	550	436	**168.00**
5	1	1 7/16	500	440	**186.00**
6	1	1 7/16	450	489	**204.00**
8	1	1 7/16	400	525	**240.00**
10	1	1 7/16	280	750	**375.00**

FEDERAL PORCELAIN BUSHINGS



TYPE A BUSHINGS

Bushings are made of one-piece, best-grade, vitrified porcelain. Clamping rings are made of metal, threaded to fit threads on the porcelain.

Cat. No.	Conduit K. O. Size, In.	Diam. In-side	In. Out-side	Approx. Max. Size R.C. Wire	Std. Pkg.	Price Per 100
A-1	*¼	5/16	41/64	No. 10	500	$7.50
A-1½	½	5/16	13/16	No. 10	250	8.00
A-1½ LS	½	5/16	13/16	No. 10	250	9.00
A-2	½	15/32	13/16	No. 8	250	8.00
A-2LS	½	27/64	13/16	No. 8	250	9.00
A-2½	½	33/64	13/16	‡No. 4	250	9.00
A-3	¾	9/16	1	No. 3	250	10.00
A-4	1	¾	1 5/16	No. 00	125	14.00
A-4L	1	⅞	1 5/16	No. 4/0	125	14.00
A-5	1¼	1⅛	1⅝	450000 CM.	125	18.00
A-6	2	1⅝	2 5/16	1000000 C.M.	60	35.00

LS, long shank. *Loom. ‡For ½-inch Neon sign cable.

TYPE B EXTRA LONG BUSHING



Will fit No. 10 solid, single-braid, rubber-covered wire.

Cat. No.	Conduit K.O. Size, In.	Diam., In. Inside	Diam., In. Outside	Std. Pkg.	Price Per 100
B-1	*¼	9/32	41/64	250	$14.00

*Loom.

SPRING CLAMP BUSHING



No. C-2

A special type bushing with shorter shank. Spring clamp is used instead of ferrule. Carton, 100.

Cat. No.	Diam., In. Inside	Diam., In. Outside	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
C-1	11/32	9/16	500	15	$7.00
C-2	½	13/16	500	15	7.50

PIPE THREAD BUSHINGS



No. F-2L

These bushings are made to fit standard pipe couplings and take standard steel locknut. No. F-1½ bushing has longer shank.

Cat. No.	Description	Size, Inches Pipe	Size, Inches Wire Hole	Std. Pkg.	Price Per 100
F-1	Plain	⅜	13/32	500	$5.00
F-1L	With Lock Nut	⅜	13/32	500	7.00
F-1½	Plain	⅜	13/32	250	5.00
F-1½ L	With Lock Nut	⅜	13/32	250	7.00
F-2	Plain	17/32	½	250	7.00
F-2L	With Lock Nut	17/32	½	250	9.00

FEDERAL PORCELAIN SOCKET



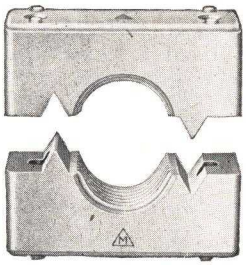
No. 330

This porcelain socket is approved by Underwriters' Laboratory and has standard Edison base. Designed for signs and similar use This socket fits in a hole 1⅝ inches in diameter and is supplied with rubber gaskets.

Cat. No.	Contacts	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
330	Binding Screw	25	100	20	$42.00

PORCELAIN CLEATS

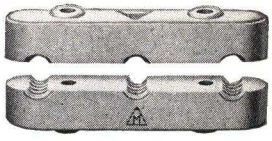
B. & D. ONE WIRE ROUND GROOVE



One wire cleats regular consist of low base and low cap. One wire cleats A consist of low cap and base one inch high under wire. One wire cleats B consist of base one inch high under wire and cap one inch high over wire.

Mfrs. No.	Groove Inches	Dimens., In. H	L	W	No. Per Barrel	Lbs. Per 1000	Price Per 1000
		For Wire Sizes 14 to 10					
1-Reg.	⅛ to ¼	¼	1¾	¾	2800	170	$74.00
		For Wire Sizes 10 to 6					
2-Reg.	¼ to ⅜	¼	1⅞	⅞	1800	260	96.00
		For Wire Sizes 6 to 2					
3-Reg.	⅜ to ½	5/16	2¼	1	1500	310	110.00
		For Wire Sizes 2 to 00					
4-Reg.	½ to ⅝	5/16	2½	1⅛	950	500	140.00
		For Wire Sizes 00 to 0000					
5-Reg.	⅝ to 13/16	⅜	2 13/16	1¼	800	560	180.00
		For Wire Sizes 14 to 10					
1-A	⅛ to ¼	¼	1¾	¾	2400	220	80.00
		For Wire Sizes 10 to 6					
2-A	¼ to ⅜	¼	1⅞	⅞	1400	340	108.00
		For Wire Sizes 6 to 2					
3-A	⅜ to ½	5/16	2¼	1	1200	395	125.00
		For Wire Sizes 2 to 00					
4-A	½ to ⅝	5/16	2½	1⅛	800	575	156.00
		For Wire Sizes 00 to 0000					
5-A	⅝ to 13/16	⅜	2 13/16	1¼	700	650	196.00
		For Wire Sizes 14 to 10					
1-B	⅛ to ¼	¼	1¾	¾	1800	270	86.00
		For Wire Sizes 10 to 6					
2-B	¼ to ⅜	¼	1⅞	⅞	1150	420	120.00
		For Wire Sizes 6 to 2					
3-B	⅜ to ½	5/16	2¼	1	1000	480	140.00
		For Wire Sizes 2 to 00					
4-B	½ to ⅝	5/16	2½	1⅛	750	650	172.00
		For Wire Sizes 00 to 0000					
5-B	⅝ to 13/16	⅜	2 13/16	1¼	650	740	212.00
		For Wire Sizes 0000 to 300,000 C.M.					
6-B	13/16 to 1	⅜	3	1⅜	450	1000	260.00
		For Wire Sizes 300,000 to 550,000 C.M.					
7-B	1 to 1¼	7/16	3½	1½	375	1400	330.00
		For Wire Sizes 550,000 to 1,000,000 C.M.					
8-B	1¼ to 1⅝	7/16	3⅞	1⅝	250	2200	500.00
		For Wire Sizes 1,000,000 to 2,000,000 C.M.					
9-B	1⅝ to 2	9/16	4¾	1⅞	200	2700	620.00
		For Wire Sizes 2,000,000 to 3,000,000 C.M.					
10-B	2 to 2½	9/16	5¼	2	150	3350	740.00

TWO AND THREE WIRE CLEATS



Cat. No. 2-Wire	Cat. No. 3-Wire	Hght. In.	Wdth. In.	Lgth. In.	Groove In.	Hole In.	Wt. Lbs. Per 1000
336	337	1⅛	⅝	3 5/16	⅛ to ¼	¼	200

Number per barrel, 2000.

PORCELAIN CLEATS

STANDARD ONE WIRE ROUND GROOVE



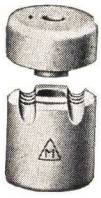
One wire cleats regular consist of low base and low cap. One wire cleats A consist of low cap and base one inch high under wire. One wire cleats B consist of base one inch high over wire and cap one inch high over wire.

Cat. No.	Groove In.	Holes In.	Lgth. In.	Wdth. In.	No. Per Barrel	Lb. Per Barrel
1 Regular	⅛ to ⅜	¼	2	⅞	2800	475
2 Regular	⅜ to ½	¼	2¼	1	1800	465
3 Regular	½ to ⅝	¼	2½	1⅛	1500	460
4 Regular	⅝ to ¾	5/16	2¾	1¼	950	475
5 Regular	¾ to 1	5/16	3	1⅜	800	450
1 A	⅛ to ⅜	¼	2	⅞	2400	490
2 A	⅜ to ½	¼	2¼	1	1400	480
3 A	½ to ⅝	¼	2½	1⅛	1200	480
4 A	⅝ to ¾	5/16	2¾	1¼	800	470
5 A	¾ to 1	5/16	3	1⅜	700	450
1 B	⅛ to ⅜	¼	2	⅞	1800	490
2 B	⅜ to ½	¼	2¼	1	1150	485
3 B	½ to ⅝	¼	2½	1⅛	1050	490
4 B	⅝ to ¾	5/16	2¾	1¼	750	485
5 B	¾ to 1	5/16	3	1⅜	650	470
6 B	1 to 1¼	⅜	3⅜	1½	450	460
7 B	1¼ to 1½	⅜	3¾	1⅝	375	445
8 B	1½ to 1¾	7/16	4½	1¾	250	550
9 B	1¾ to 2	7/16	5	2	200	550

Cat. No.	Size Wire	Price Per 1000
1 Regular	14 to 8	$74.00
2 Regular	8 to 4	96.00
3 Regular	4 to 0	110.00
4 Regular	0 to 0000	140.00
5 Regular	0000 to 300,000 C.M.	180.00
1 A	14 to 8	80.00
2 A	8 to 4	108.00
3 A	4 to 0	125.00
4 A	0 to 0000	156.00
5 A	0000 to 300,000 C.M.	196.00
1 B	14 to 8	86.00
2 B	8 to 4	120.00
3 B	4 to 0	140.00
4 B	0 to 0000	172.00
5 B	0000 to 300,000 C.M.	212.00
6 B	300,000 to 550,000 C.M.	260.00
7 B	550,000 to 1,000,000 C.M.	330.00
8 B	1,000,000 to 1,500,000 C.M.	500.00
9 B	1,500,000 to 2,000,000 C.M.	620.00

PORCELAIN INSULATORS

5½ SPLIT 2 GROOVES, SWIVEL CAP



Height, In.	1¾
Diameter, In.	1⅛
Hole, In.	¼
Groove, In.	¼
Number Per Barrel	3200
Pounds Per 1000	135
Price Per 1000	$52.00



BULLDOG ASSEMBLED ON NAILS

Height, In.	1¾
Diameter, In.	1⅛
Hole, In.	¼
Groove, In.	¼
Number Per Barrel	3000
Pounds Per 1000	165
Price Per 1000	$70.00

PORCELAIN INSULATORS



FOUR GROOVES

Mfrs. No.	9419	9420
Size Wire	8–14	4–8
Height, In.	1⅞	2⅛
Diameter, In.	1½	2
Number Per Barrel	1500	700
Pounds Per 1000	290	650
Price Per 1000	$87.00	$142.00

NO. 5 SOLID KNOB

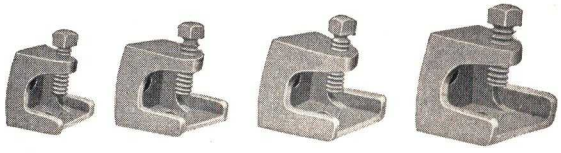


Height, In.	1¼
Diameter, In.	1
Hole, In.	¼
Groove, In.	5/16
Number Per Barrel	6300
Pounds Per 1000	72

BULL DOG INSULATOR SUPPORTS

Bull Dog Insulator Supports are certified malleable iron clamps, galvanized finish for attaching porcelain or glass insulators to exposed steel framework in mill buildings and similar structures.

They are designed to secure a Bull Dog grip on the steel framework with the slightly slanted case-hardened steel set screws. Made in four sizes to accommodate all standard insulators.



No. 400 No. 401 No. 402 No. 403

No. 400. One-Inch Bull Dog Insulator Supports. Specify No. 10-24 tapping for No. 5½ Split Knobs. Specify No. 14-20 tapping for No. 5½ Solid Knobs.
Packed 100 in a wooden box.
Shipping weight per 100, 25 pounds.

No. 400 Price per 100 ..... **$26.40**

No. 401. 1½-Inch Bull Dog Insulator Supports. Specify No. 14-20 tapping for No. 9419 Split Knobs. Specify No. 18-18 tapping for No. 4½ Solid and No. 33 Split Knobs. Specify No. 18-18 tapping for No. 1 and No. 1½ B & D Cleats.
Packed 100 in a wooden box.
Shipping weight per 100, 55 pounds.

No. 401 Price per 100 ..... **$44.00**

No. 402. 2-Inch Bull Dog Insulator Supports. Specify No. 18-18 tapping for No. 9420 Split Knobs. Specify No. 24-16 tapping for No. 1, No. 2, No. 3 W.G., No. 3½ and No. 24 Solid Knobs. Specify ½ inch-13 tapping for No. 26 and No. 30 Solid Knobs. Specify No. 24-16 tapping for No. 2, No. 2½ and No. 3 B & D Cleats.
Packed 50 in a wooden box.
Shipping weight per 100, 90 pounds.

No. 402 Price per 100 ..... **$77.00**

No. 403, 2½-Inch Bull Dog Insulator Supports. Specify ⅜ inch-16 tapping for No. 52 Solid Knobs. Specify ½ inch-13 tapping for No. 29, No. 49 and No. 53 Solid Knobs. Specify ½ inch-13 tapping for No. 3½ and No. 4 B & D Cleats. Specify ½ inch-13 tapping for No. 72 Hubbard or No. 450 Wood Pins for DGDP Glass Insulators.
Packed 50 in a wooden box.
Shipping weight per 100, 140 pounds.

No. 403 Price per 100 ..... **$110.00**

HEWITT SPECIALLY PROCESSED SOLDER

The result of continuous research through applied science in the development of Solder Alloys for increased efficiency in soldering operations. Hewitt Laboratory-controlled Solders are universally acclaimed for their economical and satisfactory performance.

HEWITT WIRE SOLDERS



Available in solid wire, acid and rosin core on 1, 5 and 25 pounds spools, in all gauges.

HEWITT BAR SOLDER



Avaliable in 1½ lbs. or ½ lb. bars in all grades.

NOKORODE SOLDERING MATERIAL

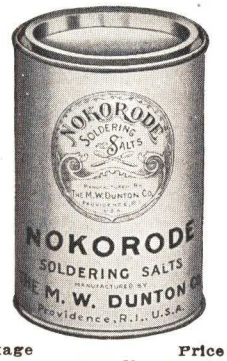


SOLDERING PASTE

Will flux all metals except Aluminum. Takes the place of acid in all soldering jobs. Absolutely non-corrosive. safe as resin and rapid as acid. Not affected by heat and does not spatter. The solder will not turn dark after using and the work has the highest tensile strength known.

Size of Can	Standard Package		Price
2 ounces	12 to Carton	each	**$0.10**
1 pound	6 to Carton	per lb.	**.70**
10 pounds	Any Quantity	per lb.	**.50**
25 pounds	Any Quantity	per lb.	**.45**
50 pounds	Any Quantity	per lb.	**.43**
100 pounds	Any Quantity	per lb.	**.40**

SOLDERING SALTS



Eliminates the use of corrosive soldering acid and makes perfect, lasting and non-corrosive joints. Extensively used by plumbers, tinsmiths and leading manufacturesrs No disagreeable fumes while under heat—will not burn the operator's hands or clothing. It is recommended to dissolve one pound of these salts in one gallon of water.

Size of Can	Standard Package		Price
1 pound	6 to Carton	per lb.	**$0.50**
5 pounds	Any Quantity	per lb.	**.40**
25 pounds	Any Quantity	per lb.	**.32**
50 pounds	Any Quantity	per lb.	**.29**
100 pounds	In Drum	per lb.	**.26**

NOKORODE SOLDERING MATERIAL

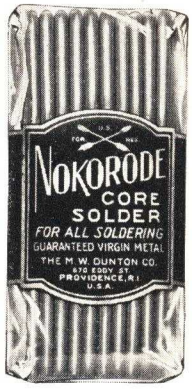


SOLDERING FLUID

Eliminates the use of corrosive soldering acid—ready for instant use. Packed in one gallon glass jugs and five gallon screw top cans, also in drums containing 55 gallons.

Size of Container	Std. Pkg.	Price Per Gal.
1 Gallon	4	**$1.70**
5 Gallons	Any Qty.	**1.30**
55 Gallons	In Drums	**.90**

NOKORODE CORE SOLDER



Will solder all metals except aluminum. Takes the place of resin or acid core solder. Noncorrosive and rapid. Not affected by heat and does not spatter. The solder will not turn dark after using, and the joint has high tensile strength. When heat is applied to the solder it does not cause the flux to run out, leaving some of the solder without flux.

Put up in packages of 1½ ounces. Price each $0.15.

Also put up in 4-ounce packages. Price each $0.25.

McGILL SOLDERING PASTE



A high quality soldering flux which saves time and labor and assures a smooth, evenly flowing metal and perfect results. Strong and rapid in action. Absolutely non-corrosive.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
2775	2 oz. Tin (in display carton of 20 Tins)	100	15	**$24.00**
2776	4 oz. Tin	100	29	**40.00**
2777	8 oz. Tin	50	32	**76.00**
2778	16 oz. Tin	50	55	**120.00**

DUTCH BRAND RUBBER TAPE



Dutch Brand Rubber Tape is the perfect splicing compound. Stretches readily, fuses perfectly, resists up to 18,000 volts through a single thickness and contains no corrosive chemicals.

Size Rolls	Price Per Roll — Less Than 30 Rolls	30 to 99 Rolls	100 to 199 Rolls	200 Rolls or More	Price Per Roll
No. 2	**$0.105**	**$0.1025**	**$0.10**	**$0.0975**	**$0.20**
No. 4	**.19**	**.18**	**.175**	**.17**	**.35**
No. 8	**.355**	**.345**	**.34**	**.335**	**.60**

DUTCH BRAND TAPE

DUTCH BRAND FRICTION TAPE



Dutch Brand Friction Tape is an "Extra Service" product. High grade, dependable, non-raveling with exceptional insulating qualities. Resists up to 2000 volts through one thickness, is strong, sticks tight, and lasts longer in any climate.

Size Rolls	Std. Pkg. Contains	Price Per Carton — Less Than 5 Ctn. Lots	5 to 9 Ctn. Lots	10 to 14 Ctn. Lots	15 or More Ctn. Lots	Price Per Roll
No. 1	16 Rolls	**$0.97**	**$0.95**	**$0.93**	**$0.91**	**$0.10**
No. 2	16 Rolls	**1.66**	**1.62**	**1.59**	**1.55**	**.18**
No. 4	12 Rolls	**2.27**	**2.22**	**2.19**	**2.13**	**.35**
No. 8	6 Rolls	**2.13**	**2.07**	**2.04**	**1.99**	**.60**

G-E TAPES

G-E VARNISHED CLOTH TAPE

Black and Yellow

G-E Varnished Cloth Tapes are manufactured from a base cloth selected for its freedom from acids and from starch and other substances which prevent the thorough penetration of the treating varnishes. These tapes are very flexible, have high dielectric strength, are oilproof, moisture- and age-resistant. The film imparted by yellow varnish is much harder than that obtained by using black varnish and consequently resists abrasion.

SEAMLESS BIAS CUT				STRAIGHT CUT			
G-E Number				G-E Number			
Black	Yellow	Thickness in In.	Width in In.	Black	Yellow	Thickness in In.	Width in In.
992	991	0.007	½, ¾, 1, 1¼, 1½	506	514	0.007	½, ¾, 1, 1¼, 1½
992	991	0.010	½, ¾, 1, 1¼, 1½	505	510	0.010	½, ¾, 1, 1¼, 1½
992	991	0.012	½, ¾, 1, 1¼, 1½	505	510	0.012	½, ¾, 1, 1¼, 1½
992	991	0.015	½, ¾, 1, 1¼, 1½	505	510	0.015	½, ¾, 1, 1¼, 1½

G-E TAPES

G-E 1786 BLACK VARNISHED CLOTH TAPE

Seamless Bias Cut

G-E **1786** Black Varnished Cloth Tape was developed for use where a product highly resistant to mineral oil is required, as in cable joints in which a sealing oil is in constant use.

G-E No.	Thickness in In.	Width in In.	Thickness in In.	Width in In.
1786	0.010	½, ¾, 1, 1¼, 1½	0.012	½, ¾, 1, 1¼, 1½

36- and 72-yard (linear yard) rolls are standard. Unless otherwise specified 36-yard rolls will be supplied.

Tape is furnished on cores 1½ inches inside diameter. Will be furnished when specified on cores ⅜-inch inside diameter for coil-winding machines.

G-E COTTON TAPES

G-E Cotton Tapes are noncurl i.e., after unwinding the tape from the roll it does not twist or curl but lies flat.

Grade A White Cotton Tape—This is a white cotton tape woven with selvages. It has an open structure, possesses full strength for this class of tapes, and is finished to a smooth, glossy, linen surface. It is used on the windings of electrical apparatus.

Grade B White Cotton Tape—This tape is similar to Grade A but is more closely woven and possesses greater strength.

Stay Binding—This is a medium-weave, white cotton stay binding. It is used on large armature coils, direct-current field coils and large transformer coils where greater mechanical strength than is given by Grades A or B Tapes is required.

Non-Elastic Webbing—A non-elastic white cotton webbing used as an outer covering on field coils, as an insulating buffer between armature coils and for binding phase insulation on shell type transformers where great mechanical strength is desired.

Description	Thickness in In.	Width in In.
G-E White Cotton Tape Grades A & B (0.005 furnished in B grade only.)	0.005	¾, 1
	0.007	½, ¾, 1, 1½
G-E Stay Binding	0.015	½, ¾, 1
	0.020	1½
G-E Non-elastic Webbing	0.030	½, ¾, 1, 1½

Standard Packing — Widths 1 inch and under, 5 gross yards. Widths over 1 inch, 3 gross yards. May be ordered in units of 1 gross yard (4—36-yard rolls) of any one width and thickness.

SCOTCH ELECTRICAL TAPE

SCOTCH No. 33 ELECTRICAL TAPE

With Vinyl Plastic Backing

Listed Under Reexamination Service of Underwriters' Laboratories, Inc.



This tape has a stretchy, rubber-like Vinyl Plastic backing that enables it to do the work of the rubber and friction tape combination. Goes on in one operation, instead of two, and does a better job. Its stretchability and resistance to oil and moisture equip it perfectly for a wide range of uses in electrical construction and repair. Its thinness gives it an important advantage in "over-stuffed" junction boxes.

This revolutionary Electrical Tape is backed with the same synthetic resin that is used on Type T synthetic insulated wire. It provides complete electrical and mechanical protection.

Packing: 1—¾ inch x 792 inch roll per can; 12 rolls per carton.

Price, No. **33** Scotch Electrical Tape per roll **$1.50**

SCOTCH No. 27 GLASS CLOTH TAPE

With Thermo-Setting Adhesive



The glass cloth backing of No. 27 Electrical Tape is not harmed by high temperatures, resists flame, does not shrink, stretch or rot; has extremely high tensile strength — 150 pounds per inch of width. Curing of the thermo-setting adhesive increases dielectric strength 500 volts and harms none of the other electrical properties.

Packing: 1—½ inch x 66 ft. roll per can.

Price, No. **27** Scotch Electrical Tape per roll **$1.67**

OKONITE TAPES AND SPLICING MATERIALS

MANSON FRICTION TAPE



Made only with new rubber which thoroughly impregnates and coats the strong, closely-woven cotton fabrics. Unequalled in true adhesiveness and in aging and weathering qualities. Provides lasting protection for joint.

Rolls ¾-in. wide, containing a minimum of 78 feet, (in ½-lb. cans) supplied unless otherwise specified. Other widths and weights can be furnished.

OKONITE RUBBER TAPE



Compounded only from new, Up-River, fine Para rubber. When wrapped on the joint, it fuses into a homogeneous wall of tough insulation that is impervious to moisture and stays elastic and resilient. Insures highest electrical strength and permanence.

Rolls, ¾-in. wide, containing 30 ft., (in ½-lb. cans) supplied unless otherwise specified. Other widths and weights can be furnished.

PLYMOUTH TAPES

SLIPKNOT BROWN FRICTION TAPE



Introducing a brand new era in friction tape. It's different — because it's the natural color of raw rubber smoked sheets. The high content of this raw, brown rubber in this new tape assures additional strength and lasting adhesive qualities.

Comes packed in brown containers of ¾-inch No. 8 roll.

Prices on application.

SLIPKNOT BLACK FRICTION TAPE

Embodies every standard specification for true quality tapes. Extra adhesive, has no pin holes, and its tensile strength is unusually high. Comes packed in orange and blue containers of No. 1, No. 2, No. 4 and No. 8 rolls.

Prices on application.



PLYMOUTH TAPES

P. R. SPLICING COMPOUND



Made of highest grade rubber compound. It moulds into one solid mass, making a joint which can never separate, and is guaranteed to withstand a dielectric test at 10,000 volts without puncturing.

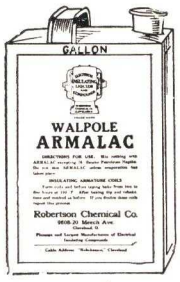
Approved by the Underwriters.

Prices on application.

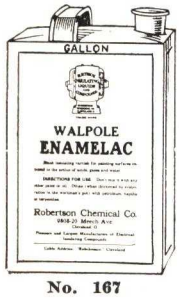
INSULATING LIQUIDS AND COMPOUNDS

ARMALAC COMPOUND

A high-grade, permanently elastic compound; used for the reinforcement of the cotton covering of windings, and for paper, fibre, mica cloth, etc.



Cat. No.	Size	Price Per Gallon
161	Barrel	$3.00
162	1-gal. can	3.70
164	5-gal. can	3.70



No. 167

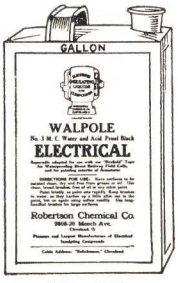
ENAMELAC

A quick-drying, glossy black insulating paint for general work, especially inside work, switchboard, junction boxes, controller cases, and the like.

Cat. No.	Size	Price Per Gallon
166	Barrel	$2.75
167	1-gal. can	3.45
168	5-gal. can	3.45

NO. 3 ELECTRICAL PAINT

A heavy, absolutely water and acid-proof paint, particularly adapted for acid tanks, battery cells, etc., also for the outside of railway field coils and armatures, controller cases, car fenders and similar works.



No. 180

Cat. No.	Size	Price Per Gallon
180	Barrel	$3.60
181	1-gal. can	5.00
183	5-gal. can	5.00

MINERALLAC INSULATING COMPOUNDS

For Use in Cable Joints, Potheads and Terminal Bells

HIGH VOLTAGE COMPOUNDS



No. 1. A compound having the consistency of molasses. Not affected by moisture. Effective in drying out tape, cloth, and between layers of such materials when wound on high-voltage electrical apparatus.

No. 2A. Cable joint or pothead compound. Melting point 82 degrees C. Adheres to metal or porcelain; especially suitable for use in warm climates.

No. 64. For use in mild climates where there is no great variation in temperature. A hard compound, with a melting point of approximately 93 degrees C.

No. 78. Cable joint or pothead compound. Dense and very adhesive. Recommended as an all-purpose insulating material. For voltages 6,000 and up. Melting point 90 degrees C. Dielectric strength 940 volts per mil at 30 degrees C.

No. 80. Pothead compound for use on 6,000 volts and over. Melting point 130 degrees C. Tests 990 volts per mil at 30 degrees C.

No. 104. A semi-solid compound for use in cable joints on high voltage lines over 6,000. Melting point 50 degrees C. Dielectric strength averages 800 volts per mil at 30 degrees C.

No. 104A. Same general characteristics as No. 104, except it has a lower melting point (35 degrees C.).

INSULATING COMPOUNDS

For high and low voltage cable joints, potheads, junction boxes, end bells, etc.

Container Size	Quantity in Gal.	Compound Number #1	#2-A	#33	#64	#78-#80 #104-#104A
½ Gal.	Any	$2.80	$3.30	$3.80	$2.60	$2.50
	1–9	2.30	2.80	3.30	2.10	2.00
1 Gal.	10–49	2.20	2.70	3.20	2.00	1.70
	50–149	2.10	2.60	3.10	1.90	1.45
	Over 150	2.00	2.50	3.00	1.80	1.25
	2–8	2.25	2.75	3.25	2.05	1.70
2 Gal.	10–48	2.15	2.65	3.15	1.95	1.40
	50–148	2.05	2.55	3.05	1.85	1.15
	Over 150	1.95	2.45	2.95	1.75	.95
	5	2.10	2.60	3.10	1.90	1.55
5 Gal.	10–45	2.00	2.50	3.00	1.80	1.25
	50–145	1.90	2.40	2.90	1.70	1.00
	Over 150	1.80	2.30	2.80	1.60	.80
Steel Drums Approx. 400 Lb.	50 and Over	1.80	2.30	2.80	1.60	.80

For compound in less than ½-gallon container, use the ½-gallon price plus 50 per cent.

Approximate shipping weight, 10 lbs. 1 gallon. Shipments f.o.b. Chicago, Illinois.

HUBBELL BRASS SHELL SOCKETS
STANDARD SOCKET BODIES



No. 60



No. 61



No. 62

250 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
60	Pull Body	25	250	41
61	Key Body	25	250	44

660 Watts, 250 Volts

178	Pull Body	25	250	32
75	Key Body	25	250	44
62	Keyless Body	25	250	34

STANDARD SOCKET CAPS


No. 411


No. 413


No. 418

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
411	Female, ⅛-inch Cap	25	250	12
413	Female, ⅜-inch Cap	25	100	6
419	Female, ½-inch Cap	25	50	4
418	Angle, ⅛-inch Cap	25	50	4
420	Angle, ⅜-inch Cap	25	50	5


No. 414


No. 415 or 416

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
414	Pendant	25	250	8
415	Pendant, Cord Grip .375 to .500 inch Cord	25	100	12
416	Pendant, Cord Grip .250 to .375 inch Cord	25	100	16

STANDARD SOCKET BASES



No. 25



No. 57



No. 27

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
25	Small Concealed Base	10	100	20
57	Small Concealed—Slotted Screw holes 1⅛" on centers.	10	100	10
27	Surface Wiring Base Screw holes 2⅛" on centers.	10	100	28

Standard finish is brush brass.

Standard length of chain 6½ inches.

HUBBELL BRASS SHELL SOCKETS
STANDARD PULL SWITCH BODIES



No. 63



No. 65

3 Amp., 125 Volts; 1 Amp., 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
63	Fixture Pull Switch	10	20	4
65	Rosette Pull Switch	10	20	4

ELECTROLIER SOCKET BODIES AND CAP



No. 59



No. 73


No. 441

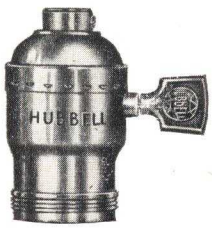
660 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
***59**	Push Through Body	25	250	32
73	Short Shell Keyless Body	25	250	26
441	Female, ⅛-inch Cap	25	250	11

STANDARD ASSEMBLED BRASS SHELL SOCKETS



No. 2618



No. 2664



No. 2667

Pull—250 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
2618	With ⅛-inch Cap	25	250	52
2632	With ⅜-inch Cap	25	250	50
2620	With Pendant Cap	25	250	50

Key—250 Watts, 250 Volts

2664	With ⅛-inch Cap	25	250	56
2634	With ⅜-inch Cap	25	250	54
2666	With Pendant Cap	25	250	50

Keyless—660 Watts, 250 Volts

2667	With ⅛-inch Cap	25	250	46
2635	With ⅜-inch Cap	25	250	45
2669	With Pendant Cap	25	250	41

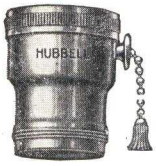
*No. 59 Electrolier push through socket body is regularly furnished with Bakelite buttons.

Standard finish is brush brass.

Standard length of chain 6½ inches.

HUBBELL THREADED-CATCH SOCKETS

BRASS SHELL SOCKET BODIES



No. 1639



No. 1637



No. 1638

250 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
1637	Key Body	25	250	49
1639	Pull Body	25	250	45

660 Watts, 250 Volts

1638	Keyless Body	25	250	39

SOCKET CAPS



No. 1630



No. 1632



No. 1634



No. 2502

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
1630	⅛-inch Cap	25	250	10
1632	⅜-inch Cap	25	100	14
1634	Pendant Cap	25	250	13

For .375 to .500-inch Cord

2502	Pendant Cap, Cord Grip	25	100	7

BAKELITE SOCKET BODIES



No. 3988



No. 3984



No. 3986

250 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
3984	Key Body	10	100	20
3988	Pull Body	10	100	19

660 Watts, 250 Volts

3986	Keyless Body	10	100	17
3987	Push Body	10	100	17

SOCKET CAPS



No. 3980-3981



No. 3982



No. 3983

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
3980	⅛-inch Cap	10	100	5
3981	¾-inch Cap	10	100	6
3982	Pendant Cap	10	100	3
3983	Pendant Cap, Cord Grip	10	100	7

Parts of Bakelite and Brass Shell Threaded Catch Sockets do not interchange.

HUBBELL PONY WALL SOCKETS

KEYLESS

660 Watts, 250 Volts



No. 50717



No. 50718

Supporting screw holes, 1 3/16 inches. Diameter, 2 inches; height, 2 inches. Standard finish, brush brass.

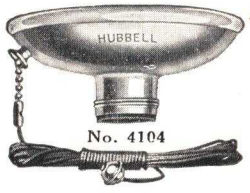
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
50717	Solid Base	10	100	22
50718	Slotted Base	10	100	22

HUBBELL CEILING AND BOX RECEPTACLES

BRASS COVERED CEILING RECEPTACLES



No. 4100



No. 4104

660 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
4100	Keyless, for 3¼ and 4-inch boxes	1	50	44

250 Watts, 250 Volts

4104	Pull, for 3¼ and 4-inch boxes	1	50	59

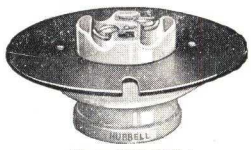
Screw spacings: Nos. 4100 and 4104, 2¾ and 3½ inches.

No. 4104 equipped with short chain, 4 feet black cord and composition ball. Finish, brush brass.

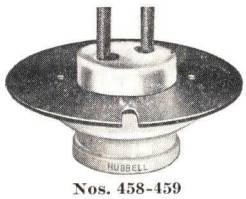
BOX RECEPTACLES

With Metal Cover and No. 14 Wires

660 Watts, 600 Volts



Nos. 456-457



Nos. 458-459

For 3¼-inch Outlet Boxes

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
456	Screw Terminals	10	100	45
458	6-inch Leads	10	100	55

For 4-inch Outlet Boxes

457	Screw Terminals	5	100	60
459	6-inch Leads	5	100	66

Cadmium finish steel covers. Height, 1 3/16 inches above cover.

HUBBELL FLUORESCENT LAMPHOLDERS

FLUSH OR SURFACE MOUNTING

For use with 1-inch and 1½-inch Fluorescent Lamps.

660 Watts, 250 Volts



No. 2936



No. 2942

Twist Turn Contacting

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std.	Pkg.
2936	Lampholder, Black	10	100	6	
2937	Lampholder, White	10	100	6	
2942	Lampholder and Starter Socket, Black	10	100	10	
2943	Lampholder and Starter Socket, *White	10	100	10	

*Only the Lampholder is white. Starter Socket is black.

FIXTURE LAMPHOLDERS

Twist-Turn Contacting



No. 2938

For use only with 1-inch Fluorescent lamps. For 15-watt 18-inch and 30-watt 36-inch lamps.

660 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
2938	Black	10	100	6
2939	White	10	100	6

FIXTURE LAMPHOLDERS

Straight Push Contacting

For 1-inch diameter lamps only.

660 Watts, 250 Volts

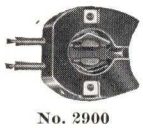
Cat. No.	Color	Carton	Std. Pkg.	Wt. Lbs.
2957	Black	10	100	6
2958	White	10	100	6



No. 2957

FIXTURE LAMPHOLDERS

660 Watts, 250 Volts



No. 2900

With wire leads. Surface mounting. Twist turn contacting. For 1-inch and 1½-inch diameter lamps. One 9-inch and one 27-inch lead of No. 18 CF wire.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std.	Pkg.
2900	Black	10	100	5	
2901	White	10	100	5	

For general lamp and fixture use. Small size reduces shadows to a minimum when used on fixtures having translucent ends.

A new finding slot makes it easier to insert the lamp. Splicing of additional wire to make connections to auxiliaries is not usually necessary.

No. 2900 is equipped with one 9-inch and one 27-inch wire lead of No. 18 CF wire. Screw spacing, 31/32 inch.

These lampholders are available in either black or white.

HUBBELL FLUORESCENT LAMPHOLDERS

MIDGET SIZE LAMPHOLDERS AND STARTER

75 Watts, 250 Volts



No. 2902



No. FS5

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std.	Pkg.
2902	Black	10	100	2	
2903	White	10	100	2	
FS5	Starter for 4- and 6-watt Lamps	10	100	3	

FLUORESCENT LAMP STARTERS



FS-2 or FS-4 Starters

Cat. No.	For Lamps	Carton	Std. Pkg.	Pkg. Wt.
FS-2	15w. 18″ or 20w. 24″	10	100	4
FS-4	30w. 36″ or 40w. 48″	10	100	4
	"No Blink" Starter			
FS-4NA	40w. only	10	100	3

HUBBELL LUMILINE LAMPHOLDERS

BAKELITE RECEPTACLES AND CAPS

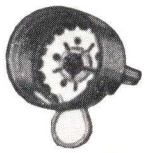
660 Watts, 250 Volts



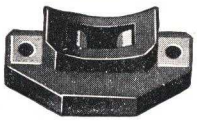
No. 2910



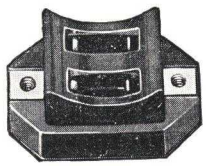
No. 2912



No. 2934



No. 2914



No. 2916

Lumiline receptacles and caps are ideally suited for built-in or built-on illumination where space limitation is a factor: showcases, mirrors, scales, signs, display windows, railroad cars, buses, indirect coves, or trough lighting fields. Bakelite, black or white as listed.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
2910	Black Receptacle, side wired	50	200	8
2911	White Receptacle, side wired	50	200	8
2912	Black Bakelite Cap	50	200	2
2913	White Bakelite Cap	50	200	2
2914	Black Receptacle, back wired	50	200	6
2915	White Receptacle, back wired	50	200	6
2916	Black Twin Recept., back wired	50	200	7
2917	White Twin Recept., back wired	50	200	7
2930	Black Receptacle, back wired, single screw mounting	50	200	8
2931	White Receptacle, back wired, single screw mounting	50	200	8
2932	Black Bakelite Cap, deep type	50	200	5
2933	White Bakelite Cap, deep type	50	200	5
2934	Black, Enclosed Cap & Switch	50	200	5
2935	White, Enclosed Cap & Switch	50	200	5

HUBBELL CANDELABRA SOCKETS



LOCK SHELL FASTENING

75 Watts, 125 Volts

Keyless—Bayonet Base

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
5793	10	50	5

SCREW THREAD SHELL FASTENING

Keyless—Candelabra Base



Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
5753	25	100	9

Standard finish is brush brass.

PORCELAIN CANDELABRA RECEPTACLE



75 Watts — 125 Volts

$\frac{5}{16}$-Inch Male Thread Bushing

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
5686	25	100	5

HUBBELL INTERMEDIATE BASE RECEPTACLES

PORCELAIN SIGN RECEPTACLE

75 Watts, 250 Volts

With Porcelain Ring



Cat. No.	Hole Required	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg.
6878	$1\frac{1}{16}$"	25	250	35

HUBBELL RUBBER SOCKETS

660 Watts, 250 Volts



No. 3593



No. 3594 Assembling Tool



No. 3595

Designed for use in industrial plants or other locations, where socket may be subjected to extra hard usage. It consists of high quality rubber shell, so designed as to take a regular Electrolier Short Shell Keyless Interior. Shells and interiors are shipped separately to facilitate wiring.

A special tool, as listed, is required to insert the interior and seat it properly in place. Two of these tools are furnished with each standard package of sockets.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
3593	Keyless	10	100	22
3595	Keyless with Cord Grip	10	100	25
3594	Assembling Tool	2	5	1

HUBBELL WEATHERPROOF SOCKETS

660 Watts, 600 Volts

WEATHERPROOF SOCKETS



With Shade Holder Groove

Furnished with 6 inches No. 14 B.&S. stranded rubber-covered wire.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
60666	Composition	10	100	25

Without Shade Holder Groove



Furnished with 6 inches No. 14 B.&S. stranded rubber-covered wire.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
43310	Composition	10	100	22



With Moulded-In Leads and Shade Holder Groove

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
43320	Mica Compound	10	100	23

Longer wires supplied on large orders only.

Furnished with 6 inches of moulded-in No. 14 B&S stranded rubber-covered wire.



No. 310

With Shade Holder Groove

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
310	Brown Bakelite	10	100	22

HUBBELL ALUMINUM SHELL SOCKETS

660 Watts, 600 Volts



No. 3135



No. 3137

One-Piece Type

Fitted with inside ring for holding porcelain body in shell.

Cat. No.	Description	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg.
3135	With $\frac{3}{8}$-inch Nipple	10	50	16
3136	With $\frac{1}{2}$-inch Nipple	10	50	16

Shade Holders

***3137**	$2\frac{1}{4}$-inch	10	50	3

*For use with Nos. 3135 and 3136 only.

HUBBELL SOCKET ACCESSORIES

SOCKET CHAIN, CORD, AND TASSELS



No. 5382



No. 3946



No. 5919



No. 3436

Cat. No.	Description	Std. Pkg.	Wt., Lbs. Std. Pkg.
5382	No. 6 Standard Socket Chain	†1000	18
6563	Black Linen Cord	†1000	10
6733	White Linen Cord	†1000	10
6735	Heavy Black Linen Cord	†100	3
3436	6-ft. Cord, Chain and Tassel	250	10
3320	7″ Standard No. 6 Chain with Tassel	250	8
3321	6½″ Chain, Ins. and Tassel	250	10
3946	Tassel, Standard Detachable	250	5
3947	Tassel, Candelabra Detach.	50	1
▲**6561**	6-ft. Cord Only with Tassel	250	10
▲**6562**	10-ft. Cord Only with Tassel	250	15
‡**5919**	Tassel, Adj. for Linen Cord	250	5

Standard finish is brush brass.

Packed in bulk. †Feet, and price per foot. ‡Furnished in black finish to match cord. ▲Can be supplied with black cord at no extra price.

DETACHABLE LINKS



No. 6814



No. 1650
No. 1651

Easy to attach and detach. Neat in appearance.

Standard finish is brush brass. Other finishes will be supplied on order.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Ozs. Std. Pkg.
*6814	Detach. Insulating Link	100	100	8
1650	Splicing Link for No. 3 Chain	200	200	8
1651	Splicing Link for No. 6 Chain	200	200	8

*This device is fitted with slotted catches for chain.

HUBBELL SHADE HOLDERS

DIRECT THREADING—VENTILATED



Holders are three-screw type. Brush brass finish.

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
501	2¼	50	500	26
505	3¼	25	250	30

WEATHERPROOF SOCKETS

These holders are provided with clamping rings to secure holders firmly to weatherproof sockets. The holders are furnished in three-screw type. Brush brass finish.



Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
6633	2¼	25	200	13
6634	3¼	10	100	15
6635	4	10	100	23

CORD GRIP FOR ½″ KNOCKOUTS

FOR 3¼- AND 4-INCH BOXES



Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
112	½″ Cord Grip for Covers	5	25	2

No. 112 fits box covers with ½-inch knockouts and is suitable for cord from ¼- to ½-inch. Has a 13/32-inch diameter cord hole.

HUBBELL PULL SOCKET ATTACHMENT

Attaches direct to any pull socket, not to the shade holder. Each attachment is equipped with 6 feet of black cord and No. 5919 adjustable acorn.



Nos. 5828 and 5957

For Brass Sockets			For Porcelain Sockets		
Cat. No.	Wt. Lbs. Std. Pkg.	For Reflectors, In.	Cat. No.	Wt. Lbs. Std. Pkg.	For Reflectors, In.
5828	7	8, 10, 12	**5957**	7	8, 10, 12
5829	8	14	**5958**	8	14

Carton, 25. Standard Package, 100.

SOCKET REDUCERS AND BUSHINGS



No. 5380



No. 421



No. 392



No. 492

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
5380	⅛″ Socket Bushing, comp.	*	1000	3
5381	⅜″ Socket Bushing, comp.	*	1000	10
421	Mogul to Medium Reducer	10	100	19
392	Medium to Candelabra	25	100	6
492	Medium to Intermediate	25	100	5

*Packed in bulk.

HUBBELL PULL SOCKET TE-TAPS



With Medium Screw Base

Plug Outlet—660W., 250V.

Socket Outlet—250W., 250V.

Cat. No	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
3190	10	10	5

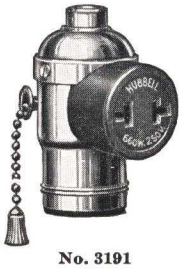
No. 3190 screws into any standard socket or socket receptacle.

With Socket Caps

Plug Outlet—660W., 250V.

Socket Outlet—250W., 250V.

Cat. No.	Size Caps	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
3191	⅛	10	10	4
3193	⅜	10	10	4
3194	Pend.	10	10	4



No. 3191

The plug outlet on the above TE-Taps is provided with double T slots which will take all types of standard plug caps with tandem, parallel or polarized blades and is alive at all times.

The standard finish is brush brass.

PULL SOCKET WITH LAMP BASE ATTACHMENT



250 Watts, 250 Volts

Pull socket with lamp base attachment can be attached to any ordinary Edison screw base socket or receptacle.

Standard finish is brush brass. Equipped with 6½ inch pull chain.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
35024	10	10	4

HUBBELL CURRENT TAPS

660 Watts, 250 Volts

DOUBLE OUTLET

Multiple—Composition

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
6711	10	20	8

Caps not supplied with No. 6711.



No. 6711



No. 6339

SINGLE OUTLET

Multiple—Composition

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
6339	10	50	17

Series—Porcelain

6298	10	50	19

HUBBELL CURRENT TAPS

TWIN TE-TAPS

10 Amperes, 250 Volts— 15 Amperes, 125 Volts



Composition

With Tandem Blades

Cat. No	Carton	Std. Pkg.	Pkg. Wt.
7010	10	10	4

With Parallel Blades

7035	10	10	4

TRIPLEX TE-TAPS

10 Amperes, 250 Volts—15 Amperes, 125 Volts

Black Porcelain

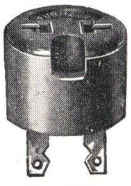
With Tandem Blades

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
6290	1	10	8



"T"-SLOT PLUG TAPS

10 Amperes, 250 Volts—15 Amperes, 125 Volts



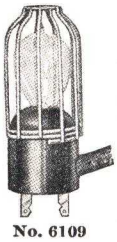
No. 6771



No. 7772

Cat. No.	Description	Carton	Std. Pkg.	Wt.,Lbs. Std.Pkg.
6771	Multiple, Tandem Blades	10	20	3
6772	Multiple, Parallel Blades	10	20	3
7772	Series, Parallel Blades....	10	20	4

SIGNAL CURRENT TAPS



No. 6109

10 Amp., 125 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
6108	Without Lamp.....	10	10	4
6109	With 125v. Lamp..	10	10	4
6101	125v. Red Lamp only	10	10	1

HUBBELL TABLE CONE

10 Amperes, 250 Volts—15 Amperes, 125 Volts

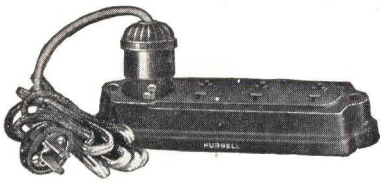


Equipped with parallel slots to accommodate up to 4 attachment plug caps in multiple. Made of bakelite in colors. Top section black, middle section red, bottom section black. Is equipped with 5 feet of cord and a bakelite attachment plug cap. Height overall, $1\frac{11}{16}$ inches. Diameter of base, $3\frac{1}{16}$ inches.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std.Pkg.
7900	Table Cone	1	10	6

HUBBELL TRIPLEX TABLE TAP

10 Amp., 250 Volts—15 Amp., 125 Volts



Combines 3 double T-slot outlets, arranged in multiple with a connector plug. May be fastened to the underside of table or to wall surface by screws through holes of either end, or may be used portably on table or desk. Furnished complete with cord connector body, attachment plug cap, and 8 feet of black cord.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
6900	1	5	12

HUBBELL SWITCH-PLUGS

3 Amps., 250 Volts—6 Amps., 125 Volts

FOR CEILING FIXTURES

Composition



Provides a switch for independent control of a light and an ever ready Standard T Slot outlet for electrically operated appliances.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
7020	10	50	15

HUBBELL CORD SWITCHES



6 Amp., 125 Volts—3 Amp., 250 Volts

Single pole cord switch. Made of bakelite, modernistic design. Fitted with large head binding screws.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
271	10	50	6

BAKELITE PENDENT OR FEED-THRU SWITCH

Black bakelite is standard.



No. 275

10 Amp., 125 V.—5 Amp., 250 V.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
275	Single Pole.....	10	50	5

HUBBELL BAKELITE FUSIBLE PLUG

Tandem Blades—6 Amperes, 250 Volts



For use where small cartridge fuses up to 6 amperes are desired on both sides of the line. Furnished less fuses. Will receive 2 ferrule type enclosed cartridge fuses, overall length 1½ inches, diameter of ferrule $\frac{13}{32}$ inch.

Cat No.	Carton	Std. Pkg.	Pkg. Wt.
7132	10	30	7

HUBBELL PLUG ADAPTERS

EDISON BASE ADAPTERS



Composition

660 Watts, 250 Volts

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
5897	10	50	8

SIDE OUTLET CURRENT TAP

660 Watts, 250 Volts

Series—Composition

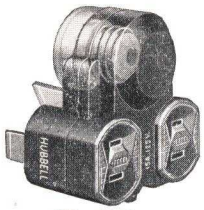
Has parallel blades. May be used with all styles of double T slot attachment plugs and plug receptacles.



Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
7029	10	50	7

15 AMP. DUPLEX FUSED ADAPTER

For Range Receptacles



***No. 7980**

Converts an idle 50A., 250V. 3-wire range outlet to a standard 15A. duplex convenience outlet. Has section for 15 ampere fuse plug as shown in illustration. Fuse plug enclosed with metal cover.

15 Amp., 125 V., Both Outlets

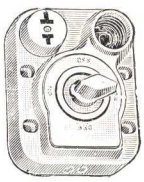
Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
7980	2	10	6

*Fuse plug not regularly supplied.

HUBBELL COMBINATION SWITCH, RECEPTACLE AND OUTLET

Porcelain—Double T Slot—10 Amp., 250 V., 15 Amp., 125 V.

Fits standard 2-gang wall case. Double-pole switch is in parallel with receptacle and pilot outlet. Both are dead when switch is in off position. Base, 4x5¼ inches. Screws spaced $1\frac{13}{16}$x$3\frac{9}{32}$ inches.



Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
466	2	10	29

HUBBELL SEPARABLE ATTACHMENT PLUGS AND CAPS



PONY SIZE—PARALLEL BLADES

Modernistic Design—All Bakelite

Brown is standard color, but black may be had on special order at no advance in price.

10 Amp., 250 V., 15 Amp., 125 V.

Cat. No.	Description	Cord Hole, In.	Carton	Std. Pkg.	Pkg. Wt.
9013	Body (660w., 250v.)	.....	25	500	18
9010	Cap Only	$\frac{3}{8}$x$\frac{9}{32}$	25	500	22

HUBBELL SEPARABLE ATTACHMENT PLUGS AND CAPS

STANDARD SIZE—PARALLEL BLADES

10 Amp., 250 V., 15 Amp., 125 V.





Composition Plug Body Only

Cat. No.	Cord Hole	Carton	Std. Pkg.	Pkg. Wt.
5917	(660w., 250v.)	10	250	20

Composition Caps

5964	13/32	10	250	19
6708	5/16	10	250	20

Brass Covered Caps

5965	13/32	10	250	24

Metal Covered Cap

6827	13/32	10	250	25

LARGE SIZE—TANDEM BLADES

10 Amp., 250 V., 15 Amp., 125 V.



Bakelite—Double T Slots

Cat. No.	Description	Cord Hole	Carton	Std. Pkg.	Pkg. Wt.
5420	Cap Only	13/32	10	100	6½
5612	Plug (660w., 250v.)	....	10	100	11

CARTRIDGE FUSE ATTACHMENT PLUG

660 Watts, 250 Volts

Composition



Furnished complete with 6 ampere type C baby fuse.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
5826	10	50	16

HUBBELL ATTACHMENT PLUG CAPS

PARALLEL BLADES

10 Amp., 250 Volts—15 Amp., 125 Volts

Bakelite—Pony Size



Cat. No.	Cord Hole Inches	Carton	Std. Pkg.	Pkg. Wt.
9010	.375x.281	25	500	22



Composition

Cat. No.	Cord Hole Inches	Carton	Std. Pkg.	Pkg. Wt.
5964	.406	10	250	19
6708	.312	10	250	20

Composition—Polarized



Cat. No.	Cord Hole Inches	Carton	Std. Pkg.	Pkg. Wt.
6764	.406	10	250	20

TANDEM BLADES

10 Amp., 250 Volts—15 Amp., 125 Volts



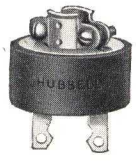
Bakelite—Heavy Duty

Cat. No.	Cord Hole Inches	Carton	Std. Pkg.	Pkg. Wt.
5420	.406	10	100	6½

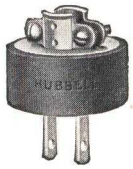
HUBBELL ATTACHMENT PLUG CAPS

RUBBER CORD-GRIP CAPS

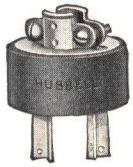
10 Amp., 250 Volts—15 Amp., 125 Volts



No. 9752



No. 9754



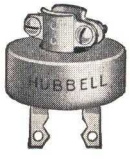
No. 9759

Cat. No.	Blades	Cord Diameter	Carton	Std. Pkg.	Pkg. Wt.
9752	Tandem	.296-.562	10	50	7
9753	Tandem	.406-.625	10	50	7
9754	Parallel	.296-.562	10	50	7
*9755	Parallel	.296-.562	10	50	7
9756	Parallel	.406-.625	10	50	7
*9757	Parallel	.406-.625	10	50	7
9759	Double T	.296-.562	10	50	7
9760	Double T Polarized	.296-.562	10	50	7

*Polarized—one wide and one narrow blade.

ARMORED CORD-GRIP CAPS

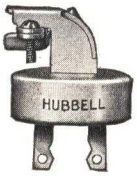
10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7056



No. 7057



No. 9076

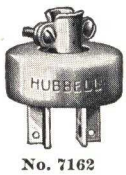
Cat. No.	Blades	Cord Diameter	Carton	Std. Pkg.	Pkg. Wt.
7056	Tandem	.296-.562	10	50	7
7057	Parallel	.296-.562	10	50	7
*7059	Parallel	.296-.562	10	50	7
7183	Tandem	.406-.625	10	50	7
7184	Parallel	.406-.625	10	50	8
*7185	Parallel	.406-.625	10	50	8
9076	Tandem, Angle	.500-.625	10	50	9
9077	Parallel, Angle	.500-.625	10	50	9

Special impact resisting composition cap, steel covered, cadmium plated.

*Polarized—one wide and one narrow blade.

DOUBLE "T" BLADES

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7162



No. 7196

Cat. No.	Blades	Cord Diameter	Carton	Std. Pkg.	Pkg. Wt.
7162	Armored, Comp.	.296-.562	10	30	5
7286	Armored, Polarized	.296-.562	10	30	5
7196	Bakelite	.406	10	50	4

HUBBELL CORD CONNECTORS

RUBBER CORD CONNECTORS

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 9952



No. 9953

Cat. No.	Description	Cord Hole, Ins.	Carton	Std. Pkg.	Pkg Wt.
9952	Body	.312-.468	10	50	9
9954	Body	.625	10	50	9
	With Cord Grip				
9953	Body	.312-.468	10	50	11
9955	Body	.625	10	50	11

RUBBER FINGER GRIP CAPS



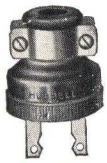
No. 9972



No. 9940



No. 9974



No. 9942

Cat No.	Blades	Cord Hole, Ins.	Carton	Std. Pkg.	Pkg Wt.
9972	Parallel	.312-.437	25	100	8
***9973**	Polarized	.312-.437	25	100	8
9934	Parallel	.625	25	100	8
***9935**	Polarized	.625	25	100	8
9974	Tandem	.312-.437	25	100	8
9936	Tandem	.625	25	100	8
	With Cord Grips				
9940	Parallel	.312-.437	25	100	10
***9941**	Polarized	.312-.437	25	100	10
9937	Parallel	.625	25	100	10
***9938**	Polarized	.625	25	100	10
9942	Tandem	.312-.437	25	100	10
9939	Tandem	.625	25	100	10

*Wide and narrow parallel blades.

COMPOSITION CONNECTOR BODIES

With Double "T" Slots

10 Amps., 250 Volts—15 Amps., 125 Volts



No. 5574



No. 7084

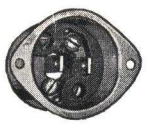
Cat. No.	Description	Cord Hole, Ins.	Carton	Std. Pkg.	Pkg Wt.
5574	Body, Comp.	.406	10	50	8
7080	Body, Comp.	.312	10	50	8
	With "Cord Grip"				
7084	Body	.296-.562	10	50	11
7187	Body	.406-.625	10	50	11

Steel cover cadmium plated.

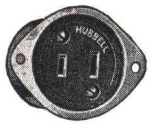
HUBBELL MOTOR PLUGS

10 Amp., 250 Volts—15 Amps., 125 Volts

SMALL FLUSH MOTOR PLUGS



No. 6808 or 9808



No. 9819



No. 6631

Cat. No.	Description	Cord Hole Inches	Carton	Std. Pkg.	Pkg. Wt.
6808	Male Base in Casing	.406	10	50	7
***9808**	Male Base in Casing	.406	10	50	7
9819	Female Base	.406	10	50	7
6631	Male Base	.....	10	50	3

*Polarized—one wide and one narrow blade.

Screw holes spaced 1¾ inches. Diameter shell, 1⅝ inches.



No. 7257
No. 7259

Polarized—Armored Cord-Grip Bodies

Fit flush motor bases Nos. 6808 or 9808. Takes caps No. 7357 or 9357.

Cat. No.	Cord Hole Inches	Carton	Std. Pkg.	Pkg. Wt.
7257	.406x.625	10	50	8
7259	.296x.406	10	50	8

SMALL SIZE CONNECTORS

Composition

10 Amp., 250 Volts—15 Amp., 125 Volts

Cord-Grip Body and Caps

Cat. No.	Description	Cord Hole Inches	Pkg. Wt.
7257	Body	.406x.625	8
7357	Cap, Comp.	.406x.625	8
†**9357**	Polarized Cap	.406x.625	8

†Polarized one wide and one narrow blade.

None of the above small size devices interchanges with standard parallel blade devices

Standard package, 50; carton, 10.



No. 7257-7357

SURFACE MOTOR PLUGS

Small-Composition

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7021

Cat. No.	Description	Cord Hole	Carton	Std. Pkg.
***7021**	Base, Pol., Male	.406	10	50
7024	Base, Male	.406	10	50

*One wide and one narrow blade.

Diameter base, 1½ inches; Supporting screw holes .875" on centers

MOTOR PLUGS

Standard Size—Polarized

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 6822-6918

Cat. No.	Description	Cord Hole	Carton	Std. Pkg.	Pkg. Wt.
6822	Body only	.406	10	50	7
6918	Cap only	.406	10	50	6

HUBBELL MOTOR PLUGS

10 Amp., 250 Volts—15 Amp., 125 Volts

STANDARD SIZE FLUSH MOTOR PLUGS

Male Base—Black Composition



No. 4897



No. 4856



No. 4891

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
4897	Concealed Wiring, Parallel Blades	10	50	9
***4898**	Polarized, Concealed Wiring, Parallel Blades	10	50	9
†4896	Concealed Wiring, Tandem Blades	10	50	9
4856	With Adjustable Cord Grips, Parallel Blades	10	50	10
4891	Exposed Wiring, Parallel Blades	10	50	9

Cord Hole, Nos. 4896, 4897 and 4898—.406x.312 inches; No. 4856—.406x.625 inches.

The above take bodies Nos. 5574, 6118, 7080, 7084, 7187, 7430, 9952, 9953, 9954 and 9955.

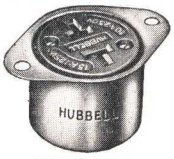
*Like No. 4897, except is polarized with one wide and one narrow blade. Dimensions same as No. 4897.

†Takes Bodies Nos. 5574 and 7080.

Metal casings furnished to resist corrosion.

FEMALE MOTOR PLUG "T"-SLOTS

Cat. No.	Cord Diameter	Carton	Std. Pkg.	Pkg. Wt.
7332	.531	10	50	12



No. 7332

SURFACE MOTOR PLUGS

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 6823



No. 5574

Cat. No.	Description	Cord Hole Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
6823	Base, Parallel	.406x.312	10	50	4
5574	Body, D'ble "T"	.406	10	50	8
7080	Body, D'ble "T"	.312	10	50	8

Diameter all male bases 1½ inches. Screw holes 1-inch centers.





No. 7430-7431

HUBBELL CORD CONNECTORS

Standard Size

10 Amps., 250 Volts

15 Amps., 125 Volts

Cat. No.	Description	Cord Hole Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
7430	Body, Bakelite	.312	10	50	7
7431	Cap, Bakelite	.281x.375	25	500	18

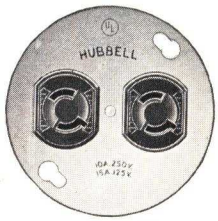
HUBBELL TWIST-TITE DEVICES

DUPLEX CONVENIENCE OUTLETS

Holds caps from falling out. Takes standard parallel bladed caps.



No. 9200



No. 9206

10 Amperes, 250 Volts—15 Amperes, 125 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg.
9200	Bakelite Receptacle Brown	10	100	25
9205	Receptacle, 3¼" Box Cover	10	50	20
9206	Receptable, 4" Box Cover	5	50	25

With Separate Feeds

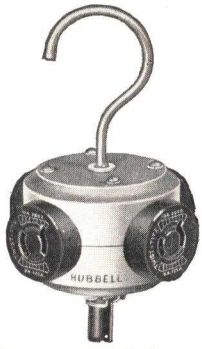
10 Amp., 250 Volts—15 Amp., 125 Volts

Each Outlet

One outlet can be wired to a switch for independent control of lamps and the other outlet permanently alive at all times.

Cat. No.	Description	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg.
9216	Bakelite, Two Feeds One Return	10	100	24
9217	Bakelite, Two Feeds Two Returns	10	100	24

TWIST-TITE FOUR OUTLET CLUSTER RECEPTACLE



Four outlets receive standard parallel bladed plug caps. Outlets are made of bakelite. Twist-Tite feature with extra tite position for gripping blades prevents accidental pulling out of plug caps. Large swivel hook for conveniently hanging up the receptacle. Swivel feature allows receptacle to rotate.

Adjustable grips for cords from .296 to .562. Solderless connections for incoming feed wire. All exposed metal finished to resist corrosion.

10 Amperes, 250 Volts — 15 Amp., 125 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9225	Twist-Tite Cluster Receptacle, less cord	1	10	5½

TWIST-TITE COMBINATION SWITCH AND OUTLET

Receptacle Rating: 10 Amp., 250V.—15 Amp., 125V.
Switch Rating: 5 Amp., 250V.—10 Amp., 125V.T.



No. 9220

Cat. No.	Description	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg.
9220	S.P., Brown-X	2	10	5
9220-I	S.P., Ivory-X	2	10	5
9223	3-W., Brown-X	2	10	5
9223-I	3-W., Ivory-X	2	10	5
	Plates Only			
9221	Brown-X	2	10	2
9221-I	Ivory-X	2	10	2

HUBBELL TWIST-TITE DEVICES

SINGLE TWIST-TITE CONVENIENCE OUTLETS

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 9210



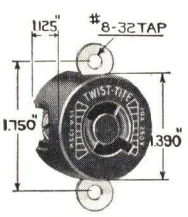
No. 9211

Cat. No.	Description	Carton	Std. Pkg.	Wt.,Lbs Std.Pkg
9210	Bakelite, Wide Ears.....	10	100	20
9211	Bakelite, 3¼" Cover....	10	100	40
9212	Bakelite 4" Cover.....	5	50	23

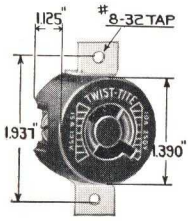
SINGLE TWIST-TITE CONVENIENCE OUTLETS

With Close Mounting Straps

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 9213



No. 9218

Cat. No.	Description	Carton	Std. Pkg.	Wt.,Lbs. Std.Pkg.
9213	Bakelite Recep., Brown	10	50	8
9218	Bakelite Recep., Brown	10	50	8

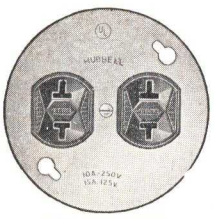
HUBBELL CONVENIENCE OUTLETS

DUPLEX CONVENIENCE OUTLETS SPECIFICATION GRADE

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 9595



No. 7260-7137



No. 9595-I

Side Wired—Double Binding Screws

Cat. No.	Description	Carton	Std. Pkg.	Pkg Wt.
9595	Bakelite, Wide Ears.....	10	100	26
9595-I	Ivorine, Wide Ears.....	10	50	13
9575	Bakelite, Narrow Ears..	10	100	25
7260	Duplex, 3¼-inch Cover	10	50	21
7137	Duplex, 4 -inch Cover	5	50	26

HUBBELL CONVENIENCE OUTLETS

DUPLEX CONVENIENCE OUTLETS SPECIFICATION GRADE

Back or Side Wired—Double T-Slots

10 Amp., 250 Volt—15 Amp., 125 Volt



No. 9260

Made of two-piece moulded bakelite, totally enclosed. A distinctive feature is the Pressure Type Wire Terminals, making it possible to wire from back, or for conventional side wiring.

Receptacle may be converted for two circuit installations.



Back View

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9260	Bakelite, Washer Ears, Brown	10	100	25
9260-I	Ivorine, Washer Ears.....	10	50	12
9261	Bakelite, Brown, with 3¼-inch Steel Box Cover	10	100	20
9262	Bakelite, Brown, with 4-inch Steel Box Cover....	5	50	25
9263	Bakelite, Brown, with 3¼-inch Bakelite Cover..	10	50	10
9264	Bakelite, Brown, with 4-inch Bakelite Cover.....	10	50	10



No. 9573

BAKELITE DUPLEX OUTLETS

With Separate Feeds—Side Wired

10 Amp., 250 Volt—15 Amp., 125 Volt Each Outlet

One outlet can be wired to a switch for independent control of lamps, and the other outlet permanently alive at all times.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9571	Bakelite, 2 Feeds, 1 Return	10	100	24
9573	Bakelite, 2 Feeds, 2 Returns	10	100	24

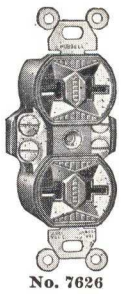
BAKELITE DUPLEX CONVENIENCE OUTLETS

Top Wired—Double Binding Screws

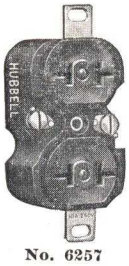
10 Amp., 250 Volt—15 Amp., 125 Volt Each Outlet

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7626	Wide Ears	10	100	24
7626-I	Ivorine	10	50	13

Supporting screw holes are spaced $3\frac{9}{32}$ inches on centers.



No. 7626



No. 6257

DUPLEX CONVENIENCE OUTLET

Top Wired—Single Binding Screws

10 Amp., 250 Volt—15 Amp., 125 Volt Each Outlet

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
6257	Black Porc.....	10	100	32

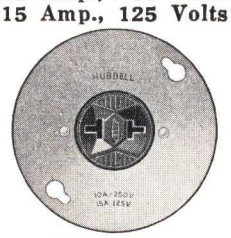
Supporting screw holes spaced $3\frac{9}{32}$ inches on centers.

HUBBELL CONVENIENCE OUTLETS

SINGLE CONVENIENCE OUTLETS

10 Amp., 250 Volts
15 Amp., 125 Volts


No. 7590


No. 7135-7136


No. 5547

Side Wired

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7590	Bakelite, Wide Ears	10	100	20
7550	Bakelite, Narrow Ears	10	100	18
7135	Single, 3¼-inch Cover	10	100	40
7136	Single, 4 -inch Cover	5	50	23

Top Wired

5547	Black Porc., Wide Ears	10	100	32


No. 9690

DUPLEX CONVENIENCE OUTLETS
INTERMEDIATE GRADE

Double Contact Springs—Washer Ears
Parallel Slots
10 Amperes, 250 Volts
15 Amperes, 125 Volts

Nos. 9698 and 9699 are suitable for insulated or grounded installations. Ideal for farm installations where grounding is difficult. Bakelite cover is impervious to moisture and fumes.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9690	Bakelite, Washer Ears, Brown	10	100	15
9690-I	Ivorine, Washer Ears	10	50	8
9693	With 3¼-inch Steel Box Cover	10	100	30
9694	With 4-inch Steel Box Cover	5	50	20
9698	With 3¼-inch Brown Bakelite Box Cover	10	50	9
9699	With 4-inch Brown Bakelite Box Cover	10	50	10

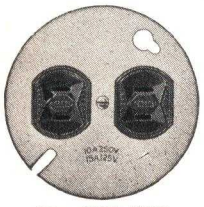
ACORN SINGLE AND DUPLEX RECEPTACLES

10 Amp., 250 Volt—15 Amp., 125 Volt

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9892	Single Bakelite	10	100	12
9892-I	Single, Ivorine	10	50	7
9890	Duplex Bakelite	10	100	15
9890-I	Duplex, Ivorine	10	50	8


No. 9890

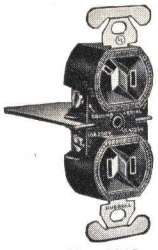
ACORN FLUSH RECEPTACLES ON BOX COVERS


Nos. 9994-9995

10 A., 250 V.—15 A., 125 V.

Cat. No.	Box Cover	Type	Carton	Std. Pkg.	Pkg. Wt.
9996	3¼	Single	10	100	30
9994	3¼	Duplex	10	50	16
9997	4	Single	5	50	21
9995	4	Duplex	5	50	20

HUBBELL RADIO POWER OUTLETS


No. 4189

DUPLEX RADIO OUTLETS

15 Amperes, 125 Volts
10 Amperes, 250 Volts

Divider plate separates aerial and ground from the power connections. Divider plate fits 1½, 2, and 2½-inch boxes.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
4189	Brown, less cap	2	10	3
4189-I	Ivorine, less cap	2	10	3
4188	Brown, with 4190 cap	2	10	4
4188-I	Ivorine, with 4190-I cap	2	10	4

RADIO CAP

One blade set at an angle to prevent insertion in power outlet. Cord hole, .281x.375 inch.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
4190	Brown	2	10	½
4190-I	Ivorine	2	10	½


No. 4190


No. 4193

SINGLE RADIO OUTLETS

For Aerial and Ground

15 Amperes, 125 Volts
10 Amperes, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
4193	Brown, less cap	2	10	1½
4193-I	Ivorine, less cap	2	10	1½
4185	Brown, with 4190 cap	2	10	2
4185-I	Ivorine, with 4190-I cap	2	10	2

HUBBELL PILOT LAMP RECEPTACLES

CANDELABRA BASE

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
432	With 125-V. Lamp	10	30	6
433	Lamp only, 125-V.	10	30	2
434	Lamp only, 250-V.	10	30	2


No. 432


No. 427

CANDELABRA BASE

Porcelain

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
427	With 125-V Lamp	10	30	13
429	Lamp for No. 427	10	30	3
428	With 250-V Lamp	10	30	12
430	Lamp for No. 428	10	30	3

BULL'S EYE JEWELS

Ruby glass and brush brass rings are standard.

Cat. No.	Style	Pkg. Wt.
7298	Rectangular	2
736	Round	2

Carton, 10. Standard package, 30.

(No. 736 can be removed from the front).


No. 7298


No. 736

HUBBELL RECEPTACLES

PORCELAIN — WITH DOUBLE "T" SLOTS

10 Amperes, 250 Volts—15 Amperes, 125 Volts

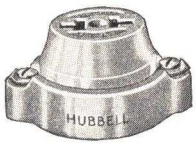


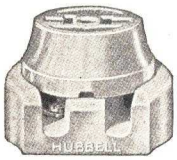
Concealed Receptacle
Screws $1\frac{17}{32}$ Inch Centers

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
5617	10	50	18

Cleat Receptacles
Screws $1\frac{13}{32}$ Inch Centers

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
5618	10	50	18



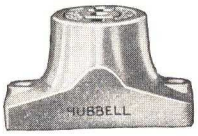


Moulding Receptacle
Screws $1\frac{1}{8}$ Inch Centers

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
5619	10	50	18

Fielding Receptacle
Screws $2\frac{5}{16}$ Inch Centers

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
5620	10	50	16





Conduit Box Receptacle
Screws $\frac{5}{8}$ Inch Centers

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
5624	10	50	13

Outlet Box Receptacle

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
7027	10	50	16





WEATHERPROOF PLUG RECEPTACLE
Composition

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
6293	10	30	9

ROUND FLUSH RECEPTACLES

10 Amps., 250 Volts—15 Amps., 125 Volts



No. 7331



No. 7255



No. 10108

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
*7331	Bakelite	10	50	8
*5614	Porcelain	10	50	8
†7255	Composition	10	50	7
‡10108	Black Porc., Polarized	10	30	5

*Screw holes 1¾ inches on centers, tapped for 8x32 screws. Diameter of Nos. 7331 nd 5614 is $1\frac{7}{8}$ inches.
†Screw holes 1⅝ inches on centers, tapped for 8x32 screws. Diameter of body, $1\frac{7}{8}$ inches.
‡Screw holes 1⅝ inches on centers, tapped for 6x32 screws. Diameter of body, $1\frac{7}{8}$ inches.
Above receptacles furnished with mounting bridges of various dimensions on special orders.

HUBBELL FLUSH RECEPTACLES



No. 7790

OUTDOOR FLUSH RECEPTACLE
10A., 250V.—15A., 125V.

Unit is complete with receptacle, rubber mat and steel plate, cadmium finish. Plate edges are rounded, to fit "FS" type fittings.

Two-Wire—With Plate

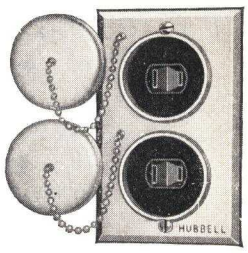
Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
7790	2	10	7

OUTDOOR DUPLEX FLUSH RECEPTACLE
10A., 250V.—15A., 125V.

Unit is complete with .060 brass plate, metal caps, rubber mat and duplex outlet with parallel slots.

2-Wire Duplex

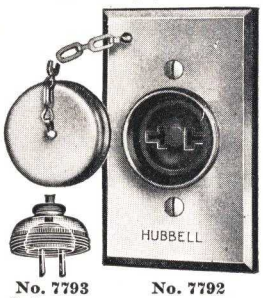
Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
7791	2	10	7



No. 7791

2-WIRE OUTDOOR FLUSH RECEPTACLE

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7793 No. 7792

When not in use, the metal cap, threads over the receptacle opening. When connected, the regular plug cap may be protected from the weather by the use of metal cover No. 7793. A rubber mat fitting under the plate completes the weather-proofing. Exposed metal parts are cadmium plated brass to resist rust and corrosion.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7792	2-Wire, less No. 7793	2	10	7
*7794	3-Wire, less No. 7793	2	10	7
7793	Metal Cap for covering regular cap	2	10	1

*No. 6149 3-wire cap should be used with No. 7794.

HUBBELL FAN HANGER OUTLETS

(Patented)

10A., 250V.—15A., 125V.

Cat. No.	Description	Std. Pkg.	Wt., Lbs. Std. Pkg.
7710	Yoke Support and .060" Plate	20	19
7714	Stud Support and .060" Plate	20	19

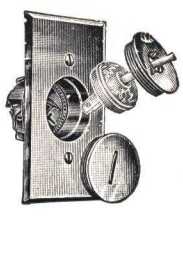
Carton—10.

Special finishes on plates for Fan Hangers take a 10% advance over the usual special finish charges for plates.



HUBBELL FLOOR OUTLETS

10 Amp., 250 Volt—15 Amp., 125 Volt



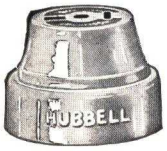
Two threaded solid brass covers supplied—one for completely closing the outlet when not in use; the other with cord hole and bushing.

Cat. No.	Brass Plate	Std. Pkg.	Pkg. Wt.
7797	Bevel Edge (.060")	10	8
7798	Square Edge (solid)	10	8

Carton, 2.

HUBBELL POLARIZED DEVICES

2-WIRE POLARIZED WALL RECEPTACLES

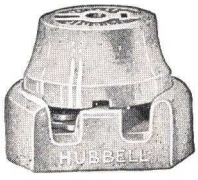


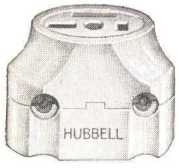
Porcelain Concealed Base
10 A., 250 V.—15 A., 125 V.

Cat. No.	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.
5885	1 17/32	10	30	11
20 Amp., 250 Volt				
5621	1 7/16	10	30	14

Porcelain Moulding Base
10 A., 250 V.—15 A., 125 V.

Cat. No.	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.
5887	1⅛	10	30	12
20 Amp., 250 Volt				
5623	1½	10	30	15





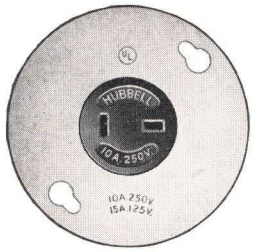
Porcelain Conduit Box Base
20 Amp., 250 Volt

Cat. No.	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.
5757	⅝	10	30	12

2-WIRE POLARIZED FLUSH RECEPTACLES



Nos. 5566, 5552



Nos. 7270, 7272

10 Amps., 250 Volts; 15 Amps., 125 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg.
5566	Black Porcelain	10	30	11
5566-B	Black Bakelite	10	30	7
*7270	Bakelite with 3¼" Cover	10	30	18
7271	Bakelite with 4" Cover	5	30	20

20 Amperes, 250 Volts

5552	Black Porcelain	10	30	11
5552-B	Black Bakelite	10	30	7
*7272	Bakelite with 3¼" Cover	10	30	18
7273	Bakelite with 4" Cover	5	30	20

*These receptacles will readily fit 3¼-inch outlet boxes when only one box connector is used. When two or more box connectors are needed the receptacles with 4-inch covers are required.

HUBBELL POLARIZED DEVICES

2-WIRE POLARIZED CORD-GRIP CAPS

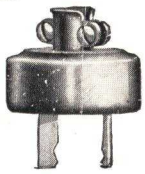


Rubber
10 A., 250 V.—15 A., 125 V.

Cat. No.	Cord Hole Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
9970	12/64 to 9/16	10	30	5
9971	⅝	10	30	5
20 Amperes, 250 Volts				
9758	⅝	10	30	6

2-WIRE POLARIZED ARMORED CORD-GRIP CAPS

Composition—Steel Covered



10 A., 250 V.—15 A., 125 V.

Cat. No.	Cord Hole, In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
7092	12/64	10	30	5
7241	⅝	10	30	5
20 Amperes, 250 Volts				
7058	⅝	10	30	8

2-WIRE POLARIZED PLUG CAPS



10 A., 250 V.,—15 A., 125 V.
Composition

Cat. No.	Cord Hole, In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
6730	13/32	10	30	4



10 A., 250 V.,—15 A., 125 V.
Porcelain—Brass Covered

Cat. No.	Cord Hole, In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
5567	13/32	10	30	5



20 Amperes, 250 Volts
Composition

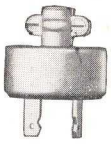
Cat. No.	Cord Hole, In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
6720	½	10	30	5

20 Amperes, 250 Volts
Porcelain—Brass Covered



Cat. No.	Cord Hole, In.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
5553	½	10	30	6
Composition—Brass Covered				
6156	½	10	30	6

2-WIRE POLARIZED CORD CONNECTORS





10 A., 250 V.—15 A., 125 V.
With 25/64-Inch Cord Hole

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
7091	Body	10	30	9
7092	Cap	10	30	5
With ⅝-Inch Cord Hole				
7240	Body	10	30	8
7241	Cap	10	30	5
20 Amperes, 250 Volts				
With ⅝-Inch Cord Hole				
7086	Body	10	30	10
7058	Cap	10	30	8

POLARIZED ADAPTER AND PLUG

660 Watts, 250 Volts

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
Adapter—Composition			
6981	10	30	5
Plug Body—Porcelain			
6672	10	30	8



No. 6981

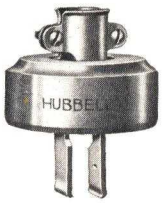


No. 6672

HUBBELL POLARIZED DEVICES

30 AMP. 2-WIRE POLARIZED FLUSH RECEPTACLES AND CAPS

Single Gang Size—30 Amp., 250 Volts



No. 7436



No. 7437

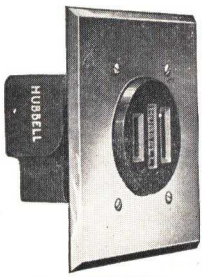


No. 7438

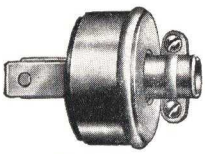
No. 7438 receptacle is 2½ inches high by $1\frac{21}{32}$ inches wide by 1⅞ inches deep, permitting its being installed in a single gang box. The face diameter of No. 7438 is larger than standard and requires the special plate No. 7439. The outside diameter of the cap is such that it will not fit when used in a two-gang installation of 7438 receptacles.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7436	Cord Grip Cap, .625 to 1.000 Cord Hole	5	30	15
7437	Comp. Cap, .656 Cord Hole	5	30	20
7438	Comp. Face Porc. Receptacle	10	30	16
7439	.040-inch Brush Brass Plate	10	30	6

Two-Gang Size—30 Amp., 250 Volts



Nos. 7070-7072



No. 7127

Supporting lugs have mounting holes spaced to fit standard 2-gang outlet boxes 2 inches deep or over.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7070	Receptacle	1	5	7
7071	Black Porcelain Cap	1	5	3
7127	Cord Grip Cap	1	5	4
7072	.060" Brass Plate, 4½x4$\frac{9}{16}$"	1	5	2

2 TO 3-WIRE PLUG ADAPTERS—COMPOSITION

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7052



No. 9052-L

These adapters have two blades for insertion in any standard convenience outlet, while the other end is equipped with three slots to take standard 10-ampere 3-wire caps.

Grounding of third blade is accomplished by the use of a binding post at the side of body from which is led to one of the flush plate screws of outlet or other grounding object.

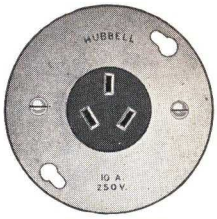
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7052	Tandem Blades	10	30	6
9052	Parallel Blades	10	30	6
7052L	Tandem with Ground Wire	10	30	7
9052L	Parallel with Ground Wire	10	30	7

HUBBELL POLARIZED DEVICES

3-WIRE POLARIZED FLUSH RECEPTACLES



No. 6051-6810



No. 7275-7277

10 Amperes, 250 Volts—15 Amperes, 125 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
6051	Comp. Receptacle	10	50	18
7189	Comp., Grounded	10	50	19
9051	Porcelain Receptacle	10	50	20
7607	With 3¼-inch Cover	10	50	20
7275	With 4-inch Cover	5	50	30

No. 7189 same design as No. 6051 but has ground shunt from one terminal to the back supporting strap.

No. 9051 can be supplied grounded by suffixing letter "G" to catalog number.

20 Amperes, 250 Volts

6810	Black Bakelite	10	30	10
7276	Black Bakelite with 3¼-inch Cover	10	30	18
7277	Black Bakelite with 4-inch Cover	5	30	20

If desired Grounded suffix letter "G" to catalog number.

WITH CLOSE MOUNTING STRAP



No. 7214

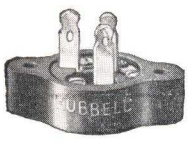
Round Flush Type, Composition

Screw holes, 1¾ inches on centers, tapped for 8x32 screws. Fits in 1½-inch diameter hole.

10 Amp., 250 Volts—15 Amp., 125 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7215	Not Grounded, 3-Screw	10	30	7
7214	Grounded, 2-Screw	10	30	5

10 AMP. 3-WIRE MOTOR PLUGS



No. 7810

Composition

10 Amp., 250 V.

15 Amp., 125 V.



No. 7808

Cat. No.	Description	Cord Hole Inches	Carton	Std. Pkg.	Pkg. Wt.
7810*	Surface Base	.437	10	50	8
7808	Flush Base	.....	10	50	8

*Mounting screw holes spaced 1⅞ inches on centers.

Nos. 7810 and 7808 take connector bodies Nos. 6409 and 7082. Mounting screw holes No. 7808 spaced 2⅛ inches on centers. Diameter of base $1\frac{11}{16}$ inches. Polished nickel finish.

If desired grounded, suffix letter "G" to catalog number.

HUBBELL POLARIZED DEVICES

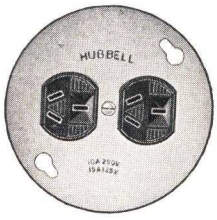
3-WIRE POLARIZED DUPLEX RECEPTACLES

Side and Back Wired

10 Amps., 250 Volts
15 Amps., 125 Volts



No. 7051



No. 7208

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7051	Black Bakelite	10	30	12
7051-I	Ivorine Receptacle	10	30	12
7208	No. 7051 with 4-inch Cover	5	30	21

3-WIRE GROUNDING TYPE CONVENIENCE OUTLET AND CAPS



No. 5262



No. 5263



No. 5264

15 Amperes, 125 Volts

For grounding exposed metal parts of portable electrical equipment. Arranged for either back or side wiring. Can also be used with standard 2-wire regular or polarized caps in the conventional way.

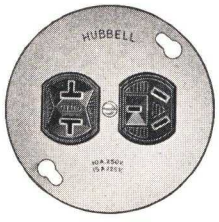
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
5262	Grounding C/O, Brown	10	50	13
5262-I	Grounding C/O, Ivorine	10	50	13
	3-Wire Caps—Without Cord Grips			
5263	Cap, Brown, .437 Cord Hole	10	50	5
5263-I	Cap, Ivorine, .437 Cord Hole	10	50	5
	Armored Caps—With Cord Grips			
5264	For Cords .296 to .562	10	50	8
5265	For Cords .406 to .625	10	50	8

2-WIRE AND 3-WIRE COMBINATION RECEPTACLES

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7053



No. 7333

Cat. No.	Description	Carton	Pkg. Wt.
7053	Each outlet wired independently	10	12
7333	Like No. 7053, on 4-In. Cover	5	21
	One Feed and One Return Common to Both Outlets		
7054	3-wire end permanently grounded to supporting strap	10	12
7334	Like No. 7054, on 4-In. Cover	5	21
7064	Grounding terminal	10	12
7335	Like No. 7064, on 4-In. Cover	5	21

Standard package quantity, 30.

HUBBELL POLARIZED DEVICES

3-WIRE POLARIZED RECEPTACLES



No. 6047

Screw holes, 1¾ inches on centers. Outside diameter of base, 2½ inches.

Cat. No.	10 Amp., 250 Volts; 15 Amp., 125 Volts — Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
6047	10	50	22
	20 Ampere, 250 Volts		
6059	10	30	16

3-WIRE POLARIZED ATTACHMENT PLUG

660 Watts, 250 Volts



No. 6042

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
6042	Porc. Base	10	50	13

3-WIRE CONDUIT BOX RECEPTACLES

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 1126



No. 6734

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
*1126	Conduit Box Receptacle	10	50	11
*1127	Conduit Box Receptacle, has D'ble Set Binding Screws	10	50	11
†6734	Conduit Box Receptacle, porcelain	10	30	10

*Porcelain with Bakelite top. Height, 1½ inches. Diameter, 1 13/32 inches.

†For grounding from one contact to conduit system.

‡Mounting screws ⅝- in. centers. Suitable for Crouse-Hinds "W" Condulets and "O" cover. Appleton "W" Unilets with 5680 cover, and Adalet fittings G2H, G3H and G4H.

10 AMP. 3-WIRE PLUG CAPS



Nos. 6149, 7252

10 Amperes, 250 Volts
15 Amperes, 125 Volts



No. 6150

Cat. No.	Description	Cord Hole	Carton	Std. Pkg.	Pkg. Wt.
6149	Bakelite Cap	.437	10	50	5
7252	Bakelite Cap	.250	10	50	6
6150	Brass Covered Cap	.437	10	50	6

10 AMP. 3-WIRE FINGER-GRIP PLUG CAPS



No. 9975

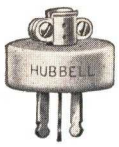
10 Amps., 250 Volts
15 Amps., 125 Volts

This finger grip cap has an extension to facilitate insertion and removal from receptacle.

Cat. No.	Description	Cord Hole	Carton	Std. Pkg.	Pkg. Wt.
9975	All Rubber Cap	.312 to .468	10	50	6

HUBBELL POLARIZED DEVICES

10 AMP. AND 20 AMP. 3-WIRE CORD-GRIP CAPS

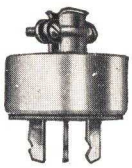


No. 7055

10 Amperes, 250 Volts
15 Amperes, 125 Volts

Composition cap, steel covered, cadmium plated.

These caps can be furnished grounded. If desired, suffix letter 'G" to catalog number.


No. 7089

Cat. No.	Cord Diam.	Carton	Std. Pkg.	Pkg. Wt.
7055	.296 to .562	10	50	8
7309	.406 to .625	10	50	8
	20 Amperes, 250 Volts			
7089	.406 to .625	10	20	9

10 AMP. AND 20 AMP. 3-WIRE CORD-GRIP CAPS

Rubber


No. 9750

10 Amperes, 250 Volts
15 Amperes, 125 Volts

These caps can be furnished grounded. If desired, suffix letter 'G" to catalog number.



No. 9977

Cat. No.	Cord Diam.	Carton	Std. Pkg.	Pkg. Wt.
9750	.296 to .562	10	50	8
9751	.406 to .625	10	50	8
	20 Amperes, 250 Volts			
9977	.406 to .625	10	20	5

20 AMP. 3-WIRE PLUG CAPS


No. 6058

20 Amperes, 250 Volts

Brush brass is standard finish for No. 6058. No. 6058 cap can be furnished grounded. If desired, suffix letter 'G" to catalog number.


No. 7198

Cat. No.	Description	Cord Hole	Carton	Std. Pkg.	Pkg. Wt.
6058	Brass Covered, Porcelain Cap	.500	10	30	6
7198	Composition Cap	.625	10	30	6

10 AMP. 3-WIRE RUBBER CORD CONNECTORS

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 9409


No. 9413

Connector Bodies					Caps			
Cat. No.	Cord Hole	Wt.Lbs. Std.Pkg.	Std. Pkg.	Carton	Cat. No.	Cord Hole	Wt.Lbs. Std.Pkg.
9409†	7/16	10	50	10	9975†	7/16	6
9410‡	7/16	11	50	10	9413‡	7/16	7
9411†	5/8	10	50	10	9976†	5/8	6
9412‡	5/8	11	50	10	9414‡	5/8	7

†Without cord grip. ‡With cord grip.

HUBBELL POLARIZED DEVICES

10 AMP. AND 20 AMP. 3-WIRE CORD CONNECTORS



10 Amperes, 250 Volts
15 Amperes, 125 Volts

Composition Body

Cat. No.	Cord Hole	Carton	Std. Pkg.	Pkg. Wt.
6409	.437	10	50	12
	Bakelite Caps			
6149	.437	10	50	5
7252	.250	10	50	6

Armored—With Cord Grip
10 A., 250 V.—15 A., 125 V.

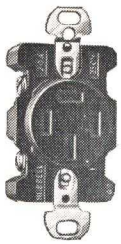


Nos. 7082-7055

With ½-Inch Cord Hole

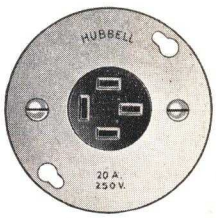
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7082	Body	10	50	13
7055	Cap	10	50	8
	With ⅝-Inch Cord Hole			
7308	Body	10	50	8
7309	Cap	10	50	8
	20 Amperes, 250 Volts			
	With ⅝-Inch Cord Hole			
7088	Body	10	20	9
7089	Cap	10	20	9

4-WIRE FLUSH RECEPTACLES AND CORD-GRIP CAPS


No. 7250

POLARIZED

20 Amperes
250 Volts



No. 7279

Cat. No.	Description	Cord Diameter	Carton	Std. Pkg.	Pkg. Wt.
7250	Receptacle, Comp.		10	20	8
7279	Receptacle on 4-inch Cover		5	20	13
7251	Cap, Metal Cover	.437-.750	10	20	6
9251	Cap, Grounded Metal Cover	.437-.750	10	20	5
9951	Rubber Cap	.437-.750	10	20	5

Takes standard single outlet plates.

If No. 7250 or 7279 is desired grounded suffix letter "G" to catalog number.

No. 9251 has shunt from ground blade to metal cover for grounding to metal-sheathed 3-wire cable.

20 AMP. 4-WIRE CORD-GRIP CORD CONNECTORS



20 Amperes, 250 Volts

The cord-grip accommodates .437 to .750-inch diameter cords.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7351	Body	10	20	10

HUBBELL POLARIZED DEVICES

30-AMP., 3-WIRE CONNECTOR AND CAP



30 Amperes, 250 Volts

Composition Body

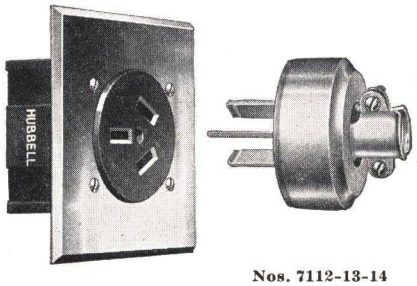
Cat. No.	Cord Diameter	Carton	Std. Pkg.	Pkg. Wt.
7283	.625 to 1.000	1	5	8

Armored Cap

7113	.625 to 1.000	1	5	5

30 AMP. AND 50 AMP. 3-WIRE FLUSH RECEPTACLES

30 and 50 Amperes—250 Volts



Nos. 7112-13-14

These receptacles are of rugged construction, made throughout of special black porcelain.

Supporting lugs have mounting holes spaced to fit a standard 2-gang box 2 inches deep or over as listed below.

Nos. 7113 and 7514 are composition, steel-covered, cadmium-plated, with adjustable cord-grip accommodating cords from .625 to 1.000 inch in diameter.

30 Amp., 250 Volts—With Binding Screws

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
*7112	Black Porcelain Receptacle	1	5	8
7113	Cord-Grip Cap	1	5	5
7514	Grounded Cord-Grip Cap	1	5	4
†7114	.060-inch Brass Plate	1	5	2

50 Amp., 250 Volts—With Soldering Terminals

*7512	Porcelain Receptacle	1	5	7
*7513	Cord-Grip Cap	1	5	5
*7520	Cord-Grip Cap	1	5	6
†7114	.060-inch Brass Plate	1	5	2

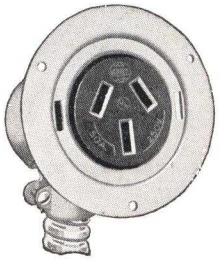
†No. 7114 is of standard 2-gang size, 4½x4⅛ inches. Standard finish, brush brass.

HUBBELL POLARIZED DEVICES

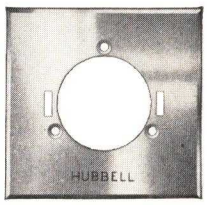
50 AMP. 3-WIRE POWER OUTLET

With Solderless Terminals

50 Amperes, 250 Volts



No. 9325



No. 9326

This receptacle does not require a separate outlet box. Designed to be mounted through a 3⅛-inch hole drilled in the wall. Receptacle body is of black bakelite. Regularly supplied with grounding slots through plate to accommodate caps with independent ground clips as on Nos. 7977, 7952, 9304 and 9305. Also takes all standard 50-amp. 250-volt, 3-wire caps without grounding clips.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9325	Bakelite Receptacle	2	10	13
9326	Stainless Steel Face Plate, semi-polished finish	2	10	3
*9327	Steel Sub Plate, cadmium finish	2	10	3

The angle cable grip clamp will accommodate BX, Greenfield or other metal sheathed cable, or non-metallic cable, .750-inch to 1.187-inch.

Diameter of outside finishing ring is 4⅝ inches. Maximum depth from underside of flange to bottom of cord clamp, with largest cable in place, is 3½ inches.

Regularly supplied with three nickel plated wood screws. Specify catalog number 9325-G if receptacle is desired with one contact grounded to metal casing.

*No. 9327 sub plate is equipped with an extra set of mounting holes, and is for use under the face plate, where it may be necessary to cover up a carelessly cut hole in the plaster wall.

3-WIRE SURFACE RECEPTACLES



No. 9306



No. 9307

50 Amperes, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9306	All Porcelain, Polarized	2	10	10
9318	Black Bakelite, Polarized	2	10	10

Nos. 7513, 7520 also 9304 and 9305 caps with ground contacts removed may be used with receptacle.

30 Amperes, 250 Volts

9307	All Compo., Polarized	2	10	7

Nos. 7113, 7514 and 9316 caps fit this receptacle.

HUBBELL POLARIZED DEVICES

50 AMP. 3-WIRE RECEPTACLES

With Plaster Box Covers

50 Amperes, 250 Volts



No. 9301 with Cover

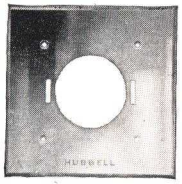
Fits standard boxes 4 11/16 inches square and 2⅛ inches deep. The plaster box cover is of special construction to make possible the use of this receptacle with standard boxes.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9301	With Box Cover	2	10	17

BRASS PLATES FOR NO. 9301 FLUSH RECEPTACLE

Standard finish is brush brass.

These plates are 5½ inches square to allow an overhang over the box to cover up irregularities in plaster work.



No. 9309

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9309	.060-inch Cadmium Steel Plate 5½" square, Ground Slots and Springs	2	10	5

50 AMP. 3-WIRE COMPOSITION CAPS



No. 9304

Polarized, with Grounding Clips—Heavy Duty

50 Amperes, 250 Volts

These caps are equipped with cord grips to accommodate BX cables, cords, or flexible conduit having outside diameters from .950 to 1.125 inches inclusive. May be used with Nos. 7112, 9306 and 9307 receptacles, and No. 7910 range receptacle.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
9304	Angle Cap	1	10	16
9305	Straight Cap	1	10	17

3-WIRE BLACK COMPOSITION CAP

30 Amperes, 250 Volts

Cat. No.	Cord Hole	Carton	Std. Pkg.	Pkg. Wt.
9316	.750	2	10	6



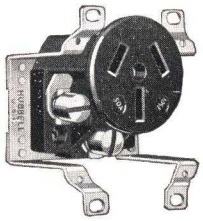
HUBBELL RANGE RECEPTACLES

3-WIRE FLUSH RANGE RECEPTACLES

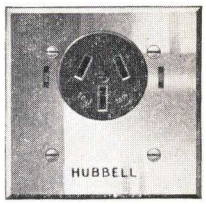
With Solderless Terminals

50 Amp., 250 Volts

Designed for mounting in standard 4-inch square box (Universal Catalog No. 52151-S box with ¾-inch knockouts and 52C18 cover). Receptacle is black bakelite. Will accommodate Bakelite Range Cap. No. 7977 or standard rubber connection cord sets.



No. 7974



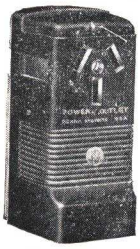
No. 7975

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7974	Receptacle only	2	10	7
7975	.040" brush brass plate only with ground slots and contacts	2	10	3
7987	.040" brush brass plate only, less ground slots and contacts	2	10	3

HUBBELL SURFACE POWER RECEPTACLE

WITH PATENTED PRESSURE TYPE TERMINALS

For Range and General Installations



No. 7990



No. 7989
Ground Strap for Clamp



No. 7977
Range Cap

Black Bakelite casing is of modern design and pleasing appearance. One-screw Pressure Type Terminals will accommodate wires from No. 2 down to No. 8. Automatic feature of clamp locates itself in terminal plate channel and rotates to locked position with first quarter turn of screw.

The new design simplifies wiring in difficult locations, particularly when close to the floor. Only one removable piece — no screws, washers, or other accessories to drop off and be lost.

Takes bakelite range cap No. 7977, also adapted for use with 3-wire all-rubber cable as well as metallic or non-metallic sheathed cable. Has triple knockouts. For ¾, 1 and 1¼-inch conduit.

Regularly furnished without No. 7989 grounding clamp.

50 Amperes, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
7990*	Surface Receptacle	2	10	14
7989	Ground Strap for No. 7990	2	10	1
7977	Range Cap, Black Bakelite	2	10	12

*When used with 1-inch conduit omit the clamps, and in its place use a regular conduit bushing and lock nuts.

HUBBELL RANGE RECEPTACLES

RANGE RECEPTACLE FITTINGS

50 Amperes, 250 Volts



Nos. 7914, 7915, 7916



Nos. 7933, 7934

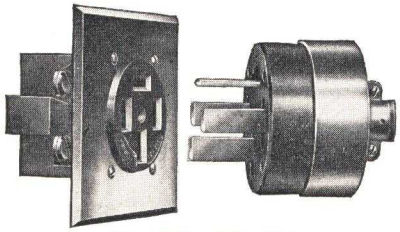
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7914	38" Rubber Cord Set, 2 No. 6 and 1 No. 8 Wires	2	10	21
7915*	38" Rubber Cord Set, 2 No. 8 and 1 No. 10 Wires	2	10	21
7916	38" Rubber Cord Set, 3 No. 6 Wires	2	10	24
7933*	36" Rubber, with Bakelite Cap, 2 No. 8 and 1 No. 10 Wires	2	10	20
7934	36" Rubber, with Bakelite Cap, 2 No. 6 and 1 No. 8 Wires	2	10	25

*Rated 35 Amperes, 125 or 250 volts. All other range cord sets rated 50 Amperes, 250 volts.

60 AMP. 4-WIRE FLUSH RECEPTACLES

Porcelain

60 Amperes, 250 Volts



Nos. 7301, 7114, 7303

A two-gang box at least 2½ inches deep is required for No. 7301 receptacle. Soldering lugs on Nos. 7301, 7302 and 7303 accommodate No. 4 wires. Nos. 7302 and 7303 caps are steel covered, Cadmium plated, with cord grips accommodating cords up to 1¼ inches in diameter.

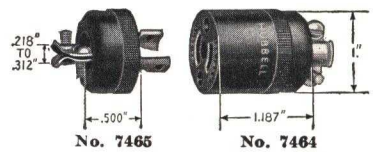
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7301	Receptacle	1	5	10
7302	Angle Cap	1	5	10
7303	Straight Cap	1	5	8
7114*	.060" Brass Plate	1	5	2

*The plate No. 7114 is .060 inch brass, size 4½x4¼ inches

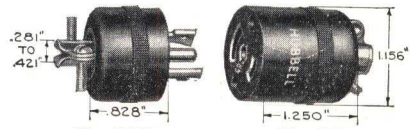
HUBBELL TWIST-LOCK DEVICES

MIDGET 2-WIRE AND 3-WIRE CONNECTORS

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7465 No. 7464



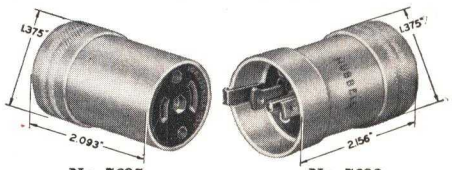
No. 7485 No. 7484

Carton, 10; standard package, 50.

Without Cord-Grip 2-Wire	Without Cord-Grip 3-Wire	Description	With Cord-Grip 2-Wire	With Cord-Grip 3-Wire
7461*	7481	Connector Body only	7464*	7484
7462	7482	Cap only	7465	7485
7477	.....	Cap, Polarized	7479	.....

10 AMP. ARMORED MIDGET CONNECTORS

10 Amp., 250 Volts — 15 Amp., 125 Volts



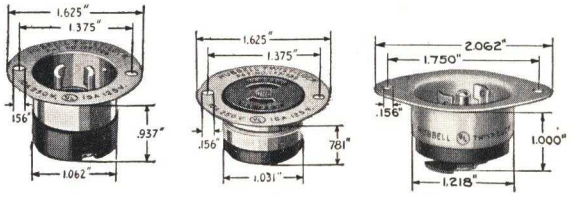
No. 7695 No. 7692

Cord-grip diameter, .360 to .484 inch.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
	3-Wire — Not Grounded			
7690	Armored Male Cap	10	50	12
7693	Armored Connector Body	10	50	12
	3-Wire — Grounded to Casing			
7691	Armored Male Cap	10	50	12
7694	Armored Connector Body	10	50	12
	4-Wire — With Equipment Ground			
7692	Armored Male Cap	10	50	12
7695	Armored Connector Body	10	50	12

10 AMP. MIDGET FLUSH MOTOR BASES

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7466 No. 7468 No. 7486

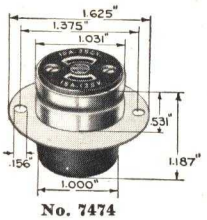
Cat. No. 2-Wire	Cat. No. 3-Wire	Description	Carton	Std. Pkg.	Pkg. Wt.
7466	7486	Male Base	10	50	3
7467	.....	Male Base, Polarized	10	50	3
7468*	7487	Female Base	10	50	3
7473*	.....	No. 7468 Receptacle on 3¼" Steel Box Cover	10	50	6
7471*	7488	Female Base, Covered Terminals, without Cord-Grips	10	50	3½
7472*	7489	Female Base, Covered Terminals, with Cord-Grips	10	50	4

*Will accommodate both polarized and non-polarized caps.

HUBBELL TWIST-LOCK DEVICES

10 AMP. 2-WIRE MIDGET FLUSH BASES

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7474

FOR REVERSE MOUNTING ON PANELS

Bodies are made of Brown Bakelite.

Female Base

Cat. No.	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg.
7474	10	50	4

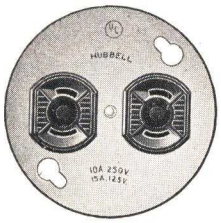
10 AMP. 2-WIRE RECEPTACLES

10 Amp., 250 Volts—15 Amp., 125 Volts


No. 7535



No. 7540



No. 7543

Single Receptacles

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7535	Bakelite Receptacle	10	50	8
7536	With 3¼-inch cover	10	30	10
7537	With 4-inch cover	5	30	12

Duplex Receptacles

7540	Bakelite Receptacle	10	50	14
7543	With 3¼-inch cover	10	50	25
7544	With 4-inch cover	5	30	15

Metal plates finished to resist corrosion.

These receptacles may be used with either polarized or non-polarized Twist-Lock Caps as above.

10 AMP. 2-WIRE PLUG CAPS

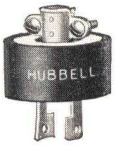
10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7504



No. 7507



No. 7545



No. 7542

Cat. No.	Description	Cord Diam., In.	Carton	Std. Pkg.	Pkg. Wt.
7504	Bakelite	.375	10	50	6
7507	Bakelite, C.Grip	.296-.562	10	50	6
*7505	Bakelite	.375	10	50	6
*7508	Bakelite, C.Grip	.296-.562	10	50	6
7545	Rubber	.296-.562	10	50	6
7546	Rubber	.406-.625	10	50	6
*7547	Rubber	.296-.562	10	50	6
*7548	Rubber	.406-.625	10	50	6
7542	Armored	.296-.562	10	50	7
7549	Armored	.406-.625	10	50	7
*7588	Armored	.296-.562	10	50	7
*7589	Armored	.406-.625	10	50	7

*Polarized—One wide and one narrow blade.

HUBBELL TWIST-LOCK DEVICES

10 AMP. 2-WIRE CONNECTOR BODIES

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7503

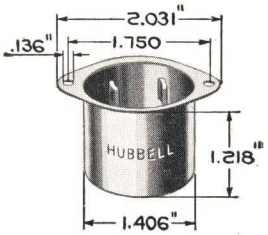


No. 7506

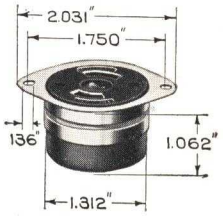
Cat. No.	Description	Cord Diam., In.	Carton	Std. Pkg.	Pkg. Wt.
7503	Connector Body	.375	10	50	7
7506	Body, Cord Grip	.296-.562	10	50	7

10 AMP. 2-WIRE FLUSH BASES

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7523



No. 7526

Cat. No.	Description	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg.
7523	Male Base	10	50	6
7524	Male Base, Polarized	10	50	6
*7526	Female Base	10	50	7
*7527	Female Base, Covered Terminals less Cord-Grips	10	50	7
*7528	Female Base, Covered Terminals, with Cord-Grips	10	50	8

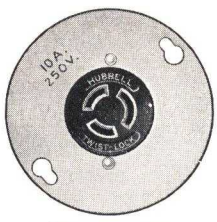
*Will accommodate both polarized and non-polarized caps.

10 AMP. 3-WIRE SINGLE RECEPTACLES

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7582



No. 7583-7584



No. 7586

Black bakelite is standard for receptacles. Supporting screw holes are spaced $3\frac{9}{32}$ inches. Metal plates finished to resist corrosion.

No. 7582 fits any standard single receptacle flush plate.

If desired grounded, suffix letter "G" to catalog number.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7582	Bakelite Single Receptacle	10	50	9
7583	With 3¼-inch Cover	10	30	11
7584	With 4-inch Cover	5	30	13
7586	With Close Mounting Strap	10	50	9
7418	Cast Iron Plate with Cover	10	30	25
7419	Plate without Lift Cover	10	30	20

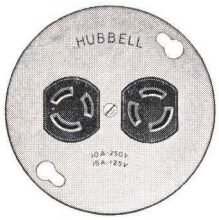
HUBBELL TWIST-LOCK DEVICES

10 AMP. 3-WIRE DUPLEX FLUSH RECEPTACLE

10 Amps., 250 Volts—15 Amps., 125 Volts



No. 7580



No. 7581



No. 7680

No. 7580 takes any standard duplex receptacle flush plate.

If desired grounded, suffix letter "G" to catalog number.

The 7680 line has an outlet for 10 amp. 3-wire Twist-Lock caps on one end, and double "T" slot outlet, for all types 10 amp. 2-wire standard plug caps fitted with parallel, tandem, or polarized blades on the other end.

Black Bakelite

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7580	Duplex Receptacle	10	50	11
7581	Duplex, on 4" Cover	5	30	15

10 Amp. Combination Receptacles
3-Wire Twist-Lock and 2-Wire Double T Slot

7680	Each outlet wired independently	10	30	12
7681	Like No. 7680, on 4" Cover	5	30	21
7682	With one feed and one return common to both outlets, 3-wire end permanently grounded to supporting strap	10	30	12
7683	Like No. 7682, on 4" Cover	5	30	21
7684	With one feed and one return common to both outlets. Grounding terminal 3-wire end equipped with binding screw	10	30	12
7685	Like No. 7684, on 4" Cover	5	30	21

ADAPTERS FOR 10 AMP. 3-WIRE TWIST-LOCK RECEPTACLES



These adapters involve three different items, each equipped with 3-wire, 10 ampere blades on one end, and medium base threaded screw shell on the other end. Wire outlet is on the side.

The screw shell end of Nos. 7645 and 7646 will accommodate either an attachment plug base for 2-wire parallel bladed caps, or a medium base lamp. No. 7647 has a screw shell designed to accommodate a screw base fuse plug or Fusetron.

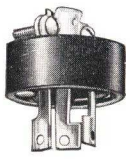
These adapters will fit any female 10 amp., 3-wire Twist-Lock flush receptacles and cord connectors.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
7645	660W. 250V. Medium Screw Base Adapter, Side Wire Outlet, Multiple	10	50	7
7646	660W. 250V. Medium Screw Base Adapter, Side Wire Outlet, Series	10	50	7
7647	0-15A. 125V. Medium Screw Base Fuse Plug Cut-out, Side Wire Outlet, Series	10	50	7

HUBBELL TWIST-LOCK DEVICES

10 AMP. 3-WIRE POLARIZED CAPS AND CONNECTOR BODIES

10 Amp., 250 Volts—15 Amp., 125 Volts



No. 7567



No. 7554



No. 7572

Caps

Cat. No.	Description	Cord Grip	Carton	Std. Pkg.	Pkg. Wt.
7567	Rubber Cap	9/16	10	50	6
7568	Rubber Cap	5/8	10	50	6
7554	Bakelite Cap	9/16	10	50	6
7558	Bakelite Cap	5/8	10	50	6
7572	Metal Cover.	9/16	10	50	6
7573	Metal Cover.	5/8	10	50	6

Bakelite Connector Bodies

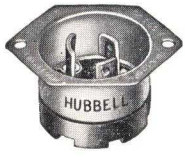
7555	Body	9/16	10	50	8
7559	Body	5/8	10	50	8



No. 7555

If desired grounded, suffix letter "G" to catalog number.

10 AMP., 3-WIRE FLUSH BASES, POLARIZED



No. 7556



No. 7557

10 Amps., 250 Volts
15 Amps., 125 Volts
Motor Plug Bases in Casings

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7556	Bakelite, with Contact Blades	10	50	5
7557	Bakelite, Female Flush Base	10	50	7

If desired grounded, suffix letter "G" to catalog number.

Screw holes in Nos. 7556 and 7557 are 1 1/8 inches on centers. Diameter of bases, 1½ inches. Height of No. 7556, 1⅛ inches. Height of No. 7557, 1 11/32 inches. Bodies of Black Bakelite.

Metal casings plated to resist corrosion.

20 AMP. 2-WIRE PLUG CAPS

20 Amperes, 250 Volts



No. 9763



No. 7102



No. 7062

Cat. No. Cord-Grip Caps Rubber	Metal Covered	Composition	Cord Holes	Carton	Std. Pkg.	Pkg. Wt.
9763	**7102**	.....	9/16	10	30	5
9764*	**9102***	.....	9/16	10	30	5
9765	**7238**	.....	5/8	10	30	5
9766*	**9103***	.....	5/8	10	30	5
.....	.....	**7062**	13/32	10	50	7
.....	.....	**7063***	13/32	10	50	7

*Polarized—One wide and one narrow blade.

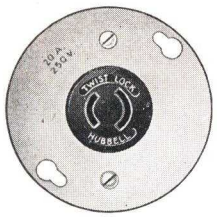
HUBBELL TWIST-LOCK DEVICES

20 AMP. 2-WIRE FLUSH RECEPTACLES

20 Amperes, 250 Volts



No. 7210



Nos. 7216, 7217

Cat. No	Description	Carton	Std. Pkg.	Pkg. Wt.
7210	Single Receptacle, Porcelain	10	50	12
7216	With 3¼-inch Cover	10	50	25
7217	With 4-inch Cover	5	30	17
*7418	Cast Metal with Lift Cover	10	30	25
*7419	Plate without Lift Cover	10	30	20

Metal plates finished to resist corrosion.

No. 7210 may be used with polarized or non-polarized Twist-Lock Caps. Fits standard convenience outlet plate.

*Outlet box not supplied.

20 AMP. 2-WIRE PORCELAIN RECEPTACLES

20 Amperes, 250 Volts



Mounting screws $\frac{31}{32}$ inches, diameter 1¾ inches, height $1\frac{27}{64}$ inches. Face diameter 1½ inches.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7624*	Receptacle	10	50	14

*Appleton Type "W" Unilet with their No. 5681 cover accommodates No. 7624 receptacles.

20 AMP. 2-WIRE SCREW BASE PLUG

660 Watts, 250 Volts



Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7612	2-Wire Plug Base	10	100	18

20 AMP. 2-WIRE CORD-GRIP CONNECTORS

20 Amperes, 250 Volts



No. 7101

Bakelite steel covered, cadmium plated. Bodies may be used with either polarized or non-polarized caps.

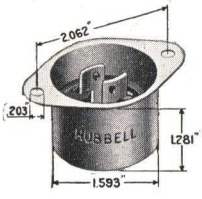
Cat. No.	Cord Diameter	Carton	Std. Pkg.	Pkg. Wt.
7101	.296 to .562	10	30	9
7224	.406 to .625	10	30	9

20-AMP. 2-WIRE MOTOR PLUGS

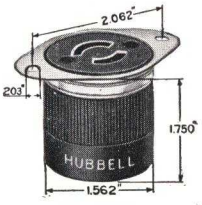
20 Amperes, 250 Volts



No. 7191



Nos. 8808-9105



No. 8809

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7191	Surface Base, Comp., Male	10	30	4
‡9104	Surface Base, Comp., Male	10	30	4
8808	Flush Base, Male	10	30	6
‡9105	Flush Base, Male	10	30	4
8809	Flush Base, Female	10	30	8

Bodies may be used with polarized or non-polarized bases.

‡Polarized—One wide and one narrow blade.

HUBBELL TWIST-LOCK DEVICES

3-WIRE CONDUIT BOX RECEPTACLE

20 Amperes, 250 Volts



Designed for permanent grounding from one contact to conduit system.

Mounting screws ⅝-inch centers. Suitable for use with Crouse-Hinds "W" condulets and "O" cover, Appleton "W" unilets with No. 5680 cover, and Adalet fittings Nos. G2H, G3H and G4H.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
7329	Receptacle, Porcelain	10	30	10

20 AMP. 3-WIRE POLARIZED CAPS AND CONNECTOR



No. 9965



No. 7311



No. 7313

20 Amp., 250 Volts, A.C. or D.C.
10 Amp., 575 Volts, A.C.

Cat. No.	Description	Cord Diameter	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg.
*9965	Rubber	.437" to .750"	10	30	8
*7311	Composition, Armored	.437" to .750"	10	30	8
*7313	Bakelite Body	.437" to .750"	10	30	11

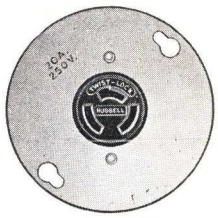
20 AMP. 3-WIRE FLUSH RECEPTACLES



No. 7310

20 Amp., 250 Volts, A.C. or D.C.

10 Amp., 575 Volts, A.C.



No. 7517

Cat. No.	Description	Carton	Std. Pkg.	Wt., Lbs. Std. Pkg
*7310	Porcelain Receptacle	10	30	11
*7517	With 4" box cover attached	5	20	13
†7502	Two Outlet Brass Plate .060"	5	10	5
7418	Cast Metal Plate with Cover	10	30	25
7419	Plate without Lift Cover	10	30	20

No. 7310 takes standard single outlet plates.

*If 3 or 4-wire Twist-Lock devices are desired with ground shunt from one contact to cover or casing, suffix letter "G" to catalog number.

HUBBELL TWIST-LOCK DEVICES

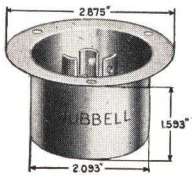
20 AMP. 3-WIRE MOTOR PLUGS

20 Amp., 250 Volts, A.C. or D.C.

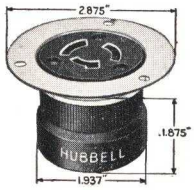
10 Amp., 575 Volts, A.C.



No. 7318



No. 7327



No. 7328

Screw holes are spaced 120 degrees apart on 1¼-inch radius for No. 8 screws.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
*7318	Surface Base, Comp., Male....	10	30	6
*7327	Flush Base in Casing, Male....	10	30	18
*7328	Flush Base, Female.....	10	30	10

†Requires 3-gang outlet box.

20 AMP. 4-WIRE POLARIZED CAPS AND CONNECTORS

20 Amp., 250 Volts, A.C. or D.C.

10 Amp., 575 Volts, A.C.



No. 9967



No. 7411



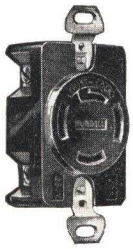
No. 7413

Cat. No.	Description	Cord Diam.	Carton	Std. Pkg.	Pkg Wt.
*9967	Rubber	.437-.750	10	20	9
*7411	Comp., Armored	.437-.750	10	20	8
*7413	Bakelite Body	.437-.750	10	20	11

20 AMP. 4-WIRE FLUSH RECEPTACLES

20 Amp., 250 Volts, A.C. or D.C.

10 Amp., 575 Volts, A.C.



No. 7410



No. 7417

Cat. No.	Description	Carton	Std. Pkg.	Pkg Wt.
*7410	Porcelain Receptacle	10	20	9
*7417	With 4-inch box cover attached	5	15	10
7421	Single Plate, .060-inch Brass	10	20	6
†7422	Two Outlet Brass Plate .060"	5	10	5

†Requires 3-gang outlet box.

*If 3 or 4-wire Twist-Lock devices are desired with ground shunt from one contact to cover or casing, suffix letter "G" to catalog number.

HUBBELL TWIST-LOCK DEVICES

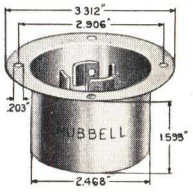
20 AMP. 4-WIRE MOTOR PLUGS

20 Amp., 250 Volts, A.C. or D.C.

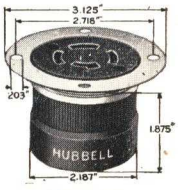
10 Amp., 575 Volts, A.C.



No. 7415



No. 7408



No. 7409

Screw holes in 7408 and 7409 are spaced 90 degrees apart.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
*7415	Surface Base, Comp., Male....	10	20	7
*7408	Flush Base in Casing, Male....	10	20	10
*7409	Flush Base, Female.....	10	20	9

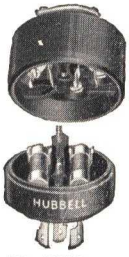
*If the 3 or 4-wire Twist-Lock devices are desired with ground shunt from one contact to cover or casing, suffix letter "G" to catalog number.

3-WIRE BAKELITE FUSIBLE CAPS

0-15 Amperes, 250 Volts



No. 7670



No. 7670
Showing Fuses

Provides fuse protection to individual electrical tool or machine which may be fused to its exact capacity and not depend on the line fuse. Prevents annoyance and loss of time due to shutdown of entire line when a short occurs.

Body is made of special impact-resisting bakelite.

Will receive 2 ferrule-type cartridge fuses. Fuse length overall 1½ inches, diameter $\frac{13}{32}$-inch.

Cat. No.	Description	Cable Diam. In.	Carton	Std. Pkg.	Pkg. Wt.
7670	With Rubber Cord-Grips	.360 to .484	10	30	7
7671	With Rubber Grips	.484 to .609	10	30	7
7672	Metal Cord-Grips..	.296 to .562	10	30	7
7673	Metal Cord-Grips..	.406 to .625	10	30	7
7674	Metal Cord-Grips..	.437 to .750	10	30	7

If desired grounded suffix letter "G" to catalog number.

*Furnished less fuses.

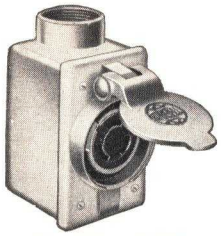
These fuse caps have blades to fit 20-amp. 3-wire Twist-Lock Receptacles and Cord-Connectors.

HUBBELL TWIST-LOCK DEVICES

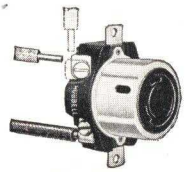
50 AMP. 3-WIRE FLUSH RECEPTACLES AND PLATES—POLARIZED

With Solderless Connections

50 Amp., 250 Volts D.C.—50 Amp., 600 Volts A.C.



No. 7380 and 7382
Assembled to Outlet Box*



No. 7380
‡Showing Two-Way Wiring and Solderless Connections

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7380	Flush Receptacle	2	5	3
7381	Flush Receptacle, grounded	2	5	3
7960	Flush Male Motor Base, 3-wire, not grounded	2	5	5
7961	Flush Male Motor Base, 3-wire, grounded to casing	2	5	5
7958	Flush Male Motor Base, 4-wire, with equipment ground	2	5	5
7382	Cast Iron Plate, with lift cover	2	5	5½
7383	Cast Iron Plate without lift cover	2	5	3

Exposed metal parts finished to resist corrosion.
Receptacle and plate will fit FS and FD boxes.
*Outlet box not supplied.
‡The solderless wiring clamps can be swiveled so as to admit wire from end or bottom as shown.

50 AMP. 3-WIRE POLARIZED CONNECTORS

With Solderless Connections and Rubber Cable Grips

50 Amp., 250 Volts D.C.
30 Amp., 600 Volts A.C.



No. 7336



No. 7339

Cable Diameter	—FEMALE BODY— Cat. No.	Carton	Std. Pkg.	Wt. Lb.	—MALE CAP— Cat. No.	Carton	Std. Pkg.	Wt. Lb.
Not Grounded								
.437 to .562	**7336**	2	5	7	**7339**	2	5	5
.562 to .687	**7343**	2	5	7	**7346**	2	5	5
.687 to .812	**7390**	2	5	7	**7393**	2	5	5
.812 to .937	**7384**	2	5	7	**7387**	2	5	5
.937 to 1.062	**7396**	2	5	7	**7398**	2	5	5
***Grounded to Casing**								
.437 to .562	**7337**	2	5	7	**7340**	2	5	5
.562 to .687	**7344**	2	5	7	**7347**	2	5	5
.687 to .812	**7391**	2	5	7	**7394**	2	5	5
.812 to .937	**7385**	2	5	7	**7388**	2	5	5
.937 to 1.062	**7397**	2	5	7	**7399**	2	5	5
†With Equipment Ground								
.437 to .562	**7338**	2	5	7	**7342**	2	5	5
.562 to .687	**7345**	2	5	7	**7348**	2	5	5
.687 to .812	**7392**	2	5	7	**7395**	2	5	5
.812 to .937	**7358**	2	5	7	**7359**	2	5	5
.937 to 1.062	**7386**	2	5	7	**7389**	2	5	5

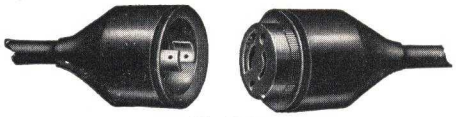
***Grounded** means that the long contact blade of the cap and the corresponding contact in the connector body and receptacle are electrically connected to the Outer Casing.

†**Equipment Ground** means that none of the contacts is electrically connected to the shell, but there is an additional terminal for the fourth wire, which is connected electrically to the Outer Casing. This fourth wire is for equipment ground.

HUBBELL "SEAL-TITE" DEVICES

"SEAL-TITE" RUBBER COVERS FOR TWIST-LOCK CONNECTORS

2-Wire, 3-Wire and 4-Wire Sizes



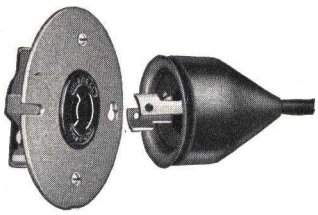
No. 7510

Protection against breakage and moisture. Recommended as Lock-Fast Connectors in packing plants, fire departments, breweries, distilleries, mines, bottling plants, dairies, tunnels and for general industrial requirements.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7510	For Nos. 7101 or 7102 2-Wire	10	30	5
7530	For Nos. 7311 or 7313 3-Wire	10	30	6½
7435	For Nos. 7411 or 7413 4-Wire	10	20	4
7442	For Nos. 7506 or 7507 2-Wire	10	30	5
7569	For Nos. 7554 or 7555 3-Wire	10	30	5
7470	For Nos. 7464 or 7465 2-Wire	10	30	3
7495	For Nos. 7484 or 7485 3-Wire	10	30	4

Catalog number covers one-half only, and does not include Connector, Cap or Wire. Two covers are required for each complete connector.

See below for short and long rubber covers, necessary when cap is to be used with a flush receptacle and a connector body.



No. 7511

"SEAL-TITE" RUBBER COVERS FOR TWIST-LOCK CAPS USED WITH FLUSH RECEPTACLES AND CONNECTOR BODIES

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7511	For No. 7102 2-Wire	10	30	4
7531	For No. 7311 3-Wire	10	30	5½
7541	For No. 7411 4-Wire	10	20	4
7497	For No. 7507 2-Wire	10	30	5
7574	For No. 7572 3-Wire	10	30	5½
7490	For No. 7465 2-Wire	10	30	3
7440	For No. 7485 3-Wire	10	30	3

LONG COVERS FOR CONNECTOR BODIES WHEN USED WITH SHORT COVERS

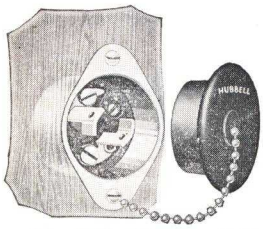


No. 7521

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7521	For 7101, when used with 7511	10	30	5
7522	For 7313, when used with 7531	10	30	5
7509	For 7413, when used with 7541	10	20	4
7496	For 7506, when used with 7497	10	30	5
7447	For 7555, when used with 7574	10	30	5
7459	For 7464, when used with 7490	10	30	5
7499	For 7484, when used with 7440	10	30	5

HUBBELL "SEAL-TITE" DEVICES

"SEAL-TITE" RUBBER COVERS FOR TWIST-LOCK MALE RECEPTACLES



No. 4895 with No. 8808

Rubber Seal-tite Cover is designed to fit snugly into metal casing to keep out dust and moisture when not in use.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
4895	Seal-tite cover with chain, for 8808 2-Wire Receptacle	10	50	4
4892	Seal-tite cover with chain, for 7327 3-Wire Receptacle	10	50	4
4893	Seal-tite cover with chain, for 7408 4-Wire Receptacle	10	20	3

SHOCK-ABSORBING RUBBER CASING

For 3-Wire Twist-Lock

Connector Bodies



No. 7564



No. 7555 with No. 7564

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7564	Rubber Casing for Nos. 7555 or 7559 Connector Bodies	10	30	3

"SEAL-TITE" RUBBER CLOSURE PLUGS

For Female Twist-Lock Receptacles

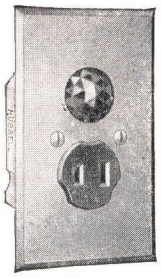




Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7648	For No. 7535, 2-Wire 10 Amp. Receptacle	10	20	3
7532	For No. 7210, 2-Wire 20 Amp. Receptacle	10	20	3
7529	For No. 7582, 3-Wire 10 Amp. Receptacle	10	20	3
7533	For No. 7310, 3-Wire 20 Amp. Receptacle	10	20	3
7534	For No. 7410, 4-Wire 20 Amp. Receptacle	10	20	3

The above Closure Plugs are made of high quality rubber and are designed to "seal-tite" Twist-Lock Flush Receptacles when not in use. Furnished complete with polished nickel chain.

HUBBELL CONVENIENCE OUTLET AND PILOT LIGHT



No. 7711

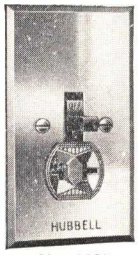
10 Amp., 250V.—15 Amp., 125V.

Light goes on when plug is inserted. No. 433 lamp fits Nos. 7711 and 7712.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
Complete with Plate			
7711	2	10	7½
Receptacle Only			
7712	2	10	4
.060 Brass Plate			
7713	2	10	4

HUBBELL SINGLE CONVENIENCE OUTLET AND SWITCH

Ratings given below are for switches only. Receptacle rating in all cases is 10 amperes, 250 volts; 15 amperes, 125 volts.

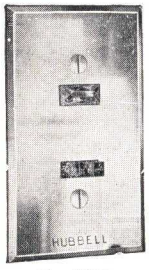


No. 8885

10 Amperes, 250 Volts
10 Amperes, 125 Volts T

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
8885	S.P., with .060" Brass Plate..	1	10	8
8886	S.P., without Plate	1	10	4
8891	S.P., with Bakelite Plate	1	10	8
8887	D.P., with .060" Brass Plate	1	10	8
8888	D.P., without Plate	1	10	4
8892	D.P., with Bakelite Plate	1	10	8
Separate Plates				
8894	.060" Brush Brass Plate	2	10	4
8895	Sand Blast Bakelite Plate.....	2	10	3

SWITCH AND PILOT LIGHT



No. 7739

S.P. and 3-Way—10 Amp., 125 Volts

5 Amp., 250 Volts

D.P.—10 Amperes, 250 Volts

Cat. No. Brass Plate	Cat. No. Bakelite Plate	Switch	Carton	Std. Pkg.	Pkg. Wt.
7739	7759	S.P.	2	10	8
7956	7957	D.P.	2	10	12
7953	7954	3-Way	2	10	12

Above switches complete with .060" brass plates or Bakelite Plates Nos. 426 and 431 lamps fit above.

HUBBELL CLOCK HANGER OUTLETS

10A., 250V.—15A., 125V.

This device allows the clock to hang flush with the wall and to cover neatly the electrical outlet.

Cat. No.	Description	Std. Pkg.	Pkg. Wt.
7707	2-Wire, .040 Plate	10	5
7708	3-Wire, .040 Plate	10	6

Carton 2.



No. 7707

HUBBELLOCK INDUSTRIAL DEVICES

3-WIRE CONNECTORS AND CAPS

10 Amperes, 250 Volts D.C.; 460 Volts A.C.

20 Amperes, 125 Volts A.C. or D.C.

With Adjustable Cord Grips



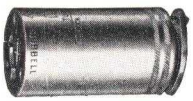

No. 23005 (¼ actual size) **No. 23002**

Cat. No.	Description	Cable Diam., In.	Pkg. Wt.
23002	Connector Body	.296—.562	9
23005	Cap	.296—.562	8
23003	Connector Body	.406—.625	9
23006	Cap	.406—.625	8
23009	Connector Body with ½-inch female pipe thread		9
23016	Cap, ½-inch female pipe thread		8

Standard package, 20; carton, 5.

If desired with ground shunt from contact to cover or casing, suffix letter "G" to catalog number.

WITH RUBBER CORD GRIPS

No. 23004 (¼ actual size) **No. 23001**

Regularly equipped with ½-inch sponge rubber discs located in neck of steel casings, and a specially designed rubber cord-grip bushing.

Cat. No.	Description	Cable Diam., In.	Pkg. Wt.
23010	Connector Body	.360—.484	9
23011	Cap	.360—.484	8
23001	Connector Body	.484—.609	9
23004	Cap	.484—.609	8

Standard package, 20; carton, 5.

3-WIRE FUSIBLE CAPS

0-15 Amperes, 250 Volts



No. 23026 (¼ actual size)

Cat. No.	Description	Cable Diam., In.	Pkg. Wt.
23028	Rubber Grip Cap	.360 to .484	16
23025	Rubber Grip Cap	.484 to .609	16
23026	Adjustable Metal Grip Cap	.296 to .562	16
23027	Adjustable Metal Grip Cap	.406 to .625	16

Standard package, 20; carton, 5.

Will receive two standard 0-15 Amp., 250V cartridge fuses, or two Bussmann Fusetrons.

All 3-wire Hubbellocks regularly shipped ungrounded. If desired with ground shunt from contact to cover or casing, suffix letter "G" to catalog number.

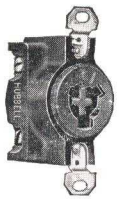
Standard Finish is Cadmium.

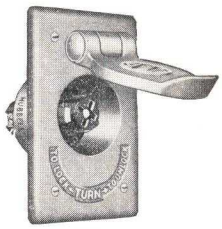
HUBBELLOCK INDUSTRIAL DEVICES

3-WIRE POLARIZED RECEPTACLE AND PLATE

10 Amperes, 250 Volts D.C.; 460 Volts A.C.

20 Amperes, 125 Volts A.C. or D.C.





No. 23000 (¼ actual size) **Nos. 23000-23007** **No. 23015**

Receptacle and Plate will fit FS and FD Boxes.

Cat. No.	Description	Wt. Lbs. Std. Pkg.
23000	3-Wire Bakelite Receptacle	8
23007	Cast Metal Plate with Lift Cover	13
23008	Cast Metal Plate without Lift Cover	10
23015	Male Receptacle complete with Cast Iron Lift Cover Plate	12

Standard package, 20; carton, 5.

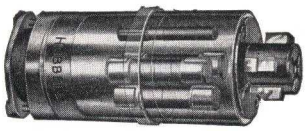
Receptacle and Plate will fit FS and FD Boxes.

Receptacle will fit standard switch boxes and single Convenience Outlet Plates.

If desired grounded, add suffix "G" to catalog number.

4-WIRE FUSIBLE CAPS

0-30 Amperes, 250 Volts



No. 21421 (⅛ actual size)

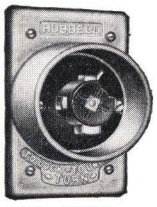
Cat. No.	Description	Cable Diam., In.	Pkg. Wt.
21421	Rubber Grip Cap	.360 to .484	14
21431	Rubber Grip Cap	.484 to .609	14
21432	Rubber Grip Cap	.609 to .750	14
21422	Rubber Grip Cap	.750 to 1.000	14
20421	Adj. Metal Grip Cap	.400 to .750	14

Standard package, 10; carton, 2.

Will receive three ferrule type cartridge fuses. Fuse length overall, 2 inches; diameter $\frac{9}{16}$ inch. Furnished less fuses. Used with No. 20403 Receptacle or Nos. 20414, 21414, 21424, 21427 and 21418 Connectors.

4-WIRE MOTOR PLUG BASES

20 Amperes, 250 Volts D.C.
30 Amperes, 600 Volts A.C.



No. 20418

These devices are furnished complete as illustrated.



No. 20420

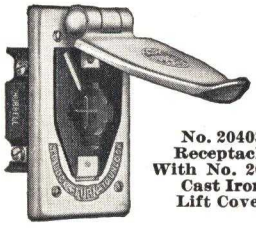
Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
20418	For FS and FD Boxes	2	10	16
20420	For 3¼-inch Outlet Boxes	2	10	16

Standard Finish is Cadmium.

HUBBELLOCK INDUSTRIAL DEVICES

4-WIRE RECEPTACLE AND PLATES

20 Amp., 250 Volts D.C.—30 Amps., 600 Volts A.C.



No. 20403 Receptacle With No. 20416 Cast Iron Lift Cover



No. 20403 Receptacle

Receptacle and Plate will fit FS and FD Boxes.

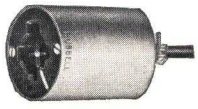
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
20403	Bakelite Receptacle	2	10	5
20416	Cast Metal Plate with cover	2	10	9
20417	Cast Metal Plate, without cover	2	10	4

4-WIRE CONNECTORS AND CAPS

With Metal Adjustable Cord Grip



No. 20415

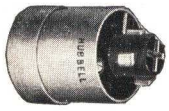


No. 20414

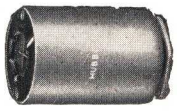
Cat. No.	Description	Cable Diam., In.	Pkg. Wt.
20414	Connector Body	.400 to .750	10
20415	Cap	.400 to .750	7

Standard package, 10; carton, 2.

WITH RUBBER CORD GRIPS



No. 21415 Cap



No. 21414 Connector Body

Cat. No.	Description	Cable Diam., In.	Pkg. Wt.
21414	Connector Body	.360 to .484	10
21424	Connector Body	.484 to .609	10
21427	Connector Body	.609 to .750	10
21442	Connector Body	.750 to .875	10
21418	Connector Body	.875 to 1.000	10
21415	Male Cap	.360 to .484	7
21425	Male Cap	.484 to .609	7
21426	Male Cap	.609 to .750	7
21443	Male Cap	.750 to .875	7
21419	Male Cap	.875 to 1.000	7

Standard package, 10; carton, 2.

ANGLE WEATHERPROOF RECEPTACLES



No. 21420

20 Amp., 250 Volts D.C.
30 Amp., 600 Volts A.C.

Takes any of the caps or connectors bodies listed above.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
21420	Female, with spring cover	2	10	34
21447	Male, with spring cover	2	10	34

Steel covers plated to resist corrosion.

HUBBELLOCK INDUSTRIAL DEVICES

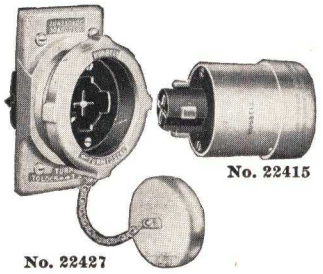
4-WIRE WATERTIGHT DEVICES

With Rubber Cord Grips

20 Amp., 250 Volts D.C.—30 Amps., 600 Volts A.C.



No. 22429



No. 22427

No. 22415

No. 22428

Female Receptacle and Caps

Cat. No.	Description	Cable Diam., In.	Carton	Std. Pkg.	Pkg. Wt.
22427	Female Receptacle with Bronze Plate and Sealing Ring		2	10	15
22415	Male Cap	.360 to .484	2	10	7
22425	Male Cap	.484 to .609	2	10	9
22422	Male Cap	.609 to .750	2	10	11
22443	Male Cap	.750 to .875	2	10	11
22419	Male Cap	.875 to 1.000	2	10	11

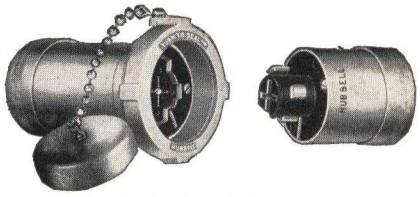
Male Receptacle and Bodies

22428	Male Receptacle with Bronze Plate and Sealing Ring		2	10	15
22429	Connector Body	.360 to .484	2	10	28
22430	Connector Body	.484 to .609	2	10	30
22431	Connector Body	.609 to .750	2	10	32
22442	Connector Body	.750 to .875	2	10	32
22432	Connector Body	.875 to 1.000	2	10	32

Receptacle and plate will fit FS and FD boxes.

WATERTIGHT CONNECTORS

With Rubber Cord Grips



No. 22414 and 22415 Assembled

Cat. No.	Description	Cable Diam., In.	Carton	Std. Pkg.	Pkg. Wt.
†22414	Connector Body	.360 to .484	2	10	28
†22424	Connector Body	.484 to .609	2	10	30
†22426	Connector Body	.609 to .750	2	10	32
†22441	Connector Body	.750 to .875	2	10	32
†22418	Connector Body	.875 to 1.000	2	10	32
22415	Male Cap	.360 to .484	2	10	7
22425	Male Cap	.484 to .609	2	10	9
22422	Male Cap	.609 to .750	2	10	11
22443	Male Cap	.750 to .875	2	10	32
22419	Male Cap	.875 to 1.000	2	10	11

All 4-wire Hubbellocks are furnished "grounded" unless otherwise specified.

†Screw tightening ring and outer threaded casting of connector bodies are made of cast bronze to prevent corrosion of threaded parts.

HUBBELL SURFACE TOGGLE SWITCHES



No. 9072



No. 9069

Black Bakelite Covers

Cat. No.	Description	Amps 125 V.	Amps 250 V.	Diam. Base In.	Screw Hole Spacing	Pkg. Wt.
9072	S.P., Slotted	6	3	2	1 7/16	22
9074	3-Way, Slotted	5	2	2 1/8	1 7/16	24

Standard package, 100; carton quantity 10.

Black Bakelite Covers For Outlet Boxes

9068	S.P., 3¼-in. Boxes	6	3	3 7/16	2¾	25
9069	S.P., 4-in. Boxes	6	3	4 7/16	3½	30
9070	3-Way, 3¼-in. Boxes	5	2	3 7/16	2¾	25
9071	3-Way, 4-in. Boxes	5	2	4 7/16	3½	30

Standard package 50; carton quantity 5.

Outlet box covers are cadmium finished.

S. P. Switches have "On" and "Off" indications. Three-way Switches are non-indicating. Metal covers on switches without box covers are of the "Snap-on" type. All switches on box covers are fitted with screw-on type covers.

Switches with Bakelite covers are recommended for installations in mills, factories, laundries, garages, cellars, or wherever there is exposure to fumes or excess moisture.

SURFACE TOGGLE SWITCHES

*Metal Handles

Brush brass and nickel plate are standard for switch covers. Brush brass covers furnished unless otherwise specified. Black porcelain base. Screw holes are elongated. Screw spacings, 1½ to 1 21/32 inches. Outside diameter of base, 2¼ inches.



No. 8171

Cat. No.	Description	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
8171	S.P., Solid	5	3	10	100	37
8191	S.P., Slotted	5	3	10	100	37
8421	S.P., Solid	10	5	10	100	37
8431	S.P., Slotted	10	5	10	100	37
8173	3-Way, Solid	5	3	10	100	37
8193	3-Way, Slotted	5	3	10	100	37

SURFACE TOGGLE SWITCHES

*Metal Handle Switches



No. 8112

Brush brass and nickel plate are standard finishes. Special finishes available.

Black porcelain base. Screw holes are elongated. Screw spacings, 1 21/32 to 1 25/32 inches.

Outside diameter of base, 2⅝ inches.

Cat. No.	Description	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
8112	D.P., Solid	....	10	10	100	57
8162	D.P., Slotted	....	10	10	100	58
8153	3-Way, Solid	10	5	10	50	20
8233	3-Way, Slotted	10	5	10	50	28

*If these metal handle switches are desired Grounded, suffix letter "G" to catalog number.

HUBBELL TOGGLE SWITCHES

ACORN SURFACE TOGGLE SWITCH

With Bakelite Covers

6 Amperes, 125 Volts; 3 Amperes, 250 Volts



No. 4443

Diameter base, 2 inches; screw spacings on centers, 1 7/16 inches.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
4442	S.P., Slotted	10	50	10
4443	S.P., Solid	10	50	10
4444	3-W., Slotted	10	50	10
4445	3-W., Solid	10	50	10

ACORN SURFACE TOGGLE SWITCHES

With Bakelite Covers—For Outlet Boxes

S. P.—6 Amps., 125 V.; 3 Amps., 250 V.
3-W.—5 Amps., 125 V.; 2 Amps., 250 V.

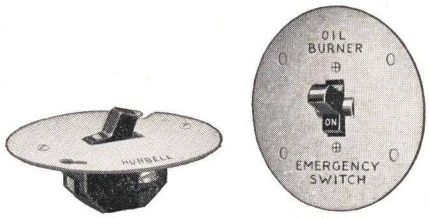
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
4431	S.P., 3¼" Box	10	50	26
4433	3-W., 3¼" Box	10	50	26
4451	S.P., 4 " Box	10	50	34
4453	3-W., 4 " Box	10	50	30



No. 4431

RESIDENTIAL TYPE BAKELITE FLUSH TOGGLE SWITCHES

For 3¼ and 4-inch Outlet Boxes



No. 7441 No. 7444 No. 7448

10 Amp., 125 Volts—5 Amp., 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt. Std. Pkg.
7441	Single Pole, 3¼-inch Cover	10	50	21
7443	Three-Way, 3¼-inch Cover	10	50	21
7451	Single Pole, 4-inch Cover	10	50	25
7453	Three-Way, 4-inch Cover	10	50	25
7444	S.P. Oil Burner Switch on 3¼-inch Red Cover	10	50	18
7445	S.P. Oil Burner Switch on 4-inch Red Cover	10	50	25
7448	Flush Cover, Red, .040"	10	50	8

TOGGLE APPLIANCE SWITCHES

Diameter neck, ½-inch; diam. switch base, 1¼ inches. Depth: 6 amp., ¾-inch; 10 amp., 13/16-inch.

Standard finishes are brush brass or polished nickel.



Nos. 8745-8659



Nos. 8650-8657

6 Amp., 125 Volts 3 Amp., 250 Volts				15 Amp., 125 Volts 10 Amp., 250 Volts			
Cat. No.	Style	Neck Size	Pkg. Wt.	Cat. No.	Style	Neck Size	Pkg. Wt.
8650	S.P.	17/64	4	8657	S.P.	17/64	4
8656	S.P.	½	4	8658	S.P.	½	4
8745	S.P., Ind.	17/64	4	8659	S.P., Ind.	17/64	4
8746	S.P., Ind.	½	5	8660	S.P., Ind.	½	5

Standard package, 50; carton, 10.

HUBBELL TOGGLE SWITCHES

FLUSH TOGGLE SWITCHES

With "T" Rating for Type C Lamp Loads

Enclosed Bakelite Base

Will fit 1½-inch switch boxes.

Brown Bakelite handles are standard. If desired grounded suffix letter "G" to catalog number.



No. 9801

With Bakelite Handle

Cat. No.	Style	Amperes 125 V.T.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.
9801	S.P., Ind.	10	5	10	50	12
9802	D.P., Ind.	10	10	10	10	3
9803	3-Way	10	5	10	20	6
9933	3-Way	20	10	10	10	3
9804	4-Way	5	2	10	10	3
9805	S.P., Ind.	20	10	10	20	8
9806	D.P., Ind.	20	10	10	10	3

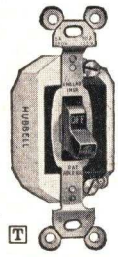
Locking Type with Enclosed Bakelite Base

One 8965 key furnished with each switch.



No. 9701

Cat. No.	Style	Amperes 125 V.T.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.
9701	S.Pole	10	5	10	50	12
9702	D.Pole	10	10	10	10	3
9703	3-Way	10	5	10	20	4
9613	3-Way	20	10	10	10	3
9704	4-Way	5	2	10	10	3
9705	S.Pole	20	10	10	20	8
9706	D.Pole	20	10	10	10	3
8965	Key	....	....	....	100	2



No. 8801

Porcelain Base

With Bakelite Handle

Cat. No.	Style	Amperes 125 V.T.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.
8801	S.P., Ind.	10	5	10	100	34
8941	S.P., Ind.	20	20	10	50	19
8942	D.P., Ind.	....	20	10	20	13
8802	D.P., Ind.	10	10	10	50	19
8803	3-Way	10	5	10	50	19
8943	3-Way	20	10	2	10	5
8804	4-Way	5	2	10	10	5

Locking Type—With Porcelain Base

For Use with Standard Rectangular Opening Switch Plates

Has special locking feature which prevents unauthorized manipulation of the switch except by possessor of No. 8965 key.

One key furnished with each locking switch. Regularly supplied grounded.

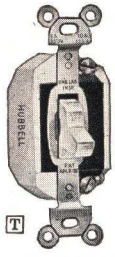


No. 8961

Cat. No.	Description	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
8961	S.P., Locking....	10	5	10	100	34
8962	D.P., Locking ..	10	10	10	50	19
8963	3-Way, Locking	10	5	10	50	18
8964	4-Way, Locking	5	2	10	10	4
8965	Key	....	....	....	100	2

HUBBELL TOGGLE SWITCHES

IVORINE FLUSH TOGGLE SWITCHES



No. 8801-I

No. 8801 Line—With Porcelain Base, Ivorine Handle—T Rated

Cat. No.	Style	Amperes 125 V.T.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.
8801-I	S.P., Ind.	10	5	10	50	19
8941-I	S.P., Ind.	20	20	10	10	6
8942-I	D.P., Ind.	....	20	10	10	7
8802-I	D.P., Ind.	10	10	10	25	10
8803-I	3-Way	10	5	10	25	10
8804-I	4-Way	5	2	10	10	8

SPHINX MERCURY FLUSH SWITCHES



No. 9711

5 Amp., 250 V.—10 Amp., 125 V.—T

(T Rating on 125 Volts only) AC or DC

Sphinx 3 and 4-way Mercury Switches cannot be used with Master Control or Emergency Systems of wiring where all lights are turned on by a master switch.

Important: Switch cannot be mounted horizontally; must be mounted vertically. "Top" on one support indicates correct mounting position.

Style	Carton	Brown Cat. No.	Brown Std. Pkg.	Brown Pkg. Wt.	Ivorine Cat. No.	Ivorine Std. Pkg.	Ivorine Pkg. Wt.
S.P., Ind.	10	**9711**	100	21	**9711-I**	50	11
D.P., Ind.	10	**9712**	50	14	**9712-I**	30	9
3-Way	10	**9713**	50	14	**9713-I**	30	9
4-Way	2	**9714**	10	3	**9714-I**	10	3



No. 9815

20 AMPERE SHALLOW FLUSH TOGGLE SWITCHES

20 Amp., 125 Volt "T"

20 Amp., 250 Volt

Cat. No.	Style	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
9815	S.P. Ind.	10	30	7
9816	D.P. Ind.	2	10	4
9943	3-Way	2	10	4

HUBBELL TOGGLE SWITCHES

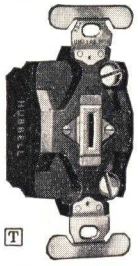
HEAVY DUTY FLUSH TOGGLE SWITCHES

T Rated for 125 Volts Only



T

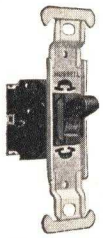
No. 2971



T

No. 2971-L

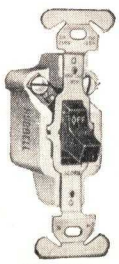
Cat. No. Std. Type	Cat. No. Lock Type	Style	Amperes 125 V.T.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.
2971	2971-L	S.P.	20	20	10	30	20
2972	2972-L	D.P.	20	20	2	10	6
2973	2973-L	3-Way	20	20	2	10	6
2974	2974-L	4-Way	20	10	2	10	4
2923	2923-L	S.P.	30	30	10	30	20
2924	2924-L	D.P.	30	30	2	10	6
2925	2925-L	3-Way	30	30	2	10	6
2926	2926-L	4-Way	20	10	2	10	4
	2308	Key	....	....	10	100	2



No. 1815 D

BAKELITE FLUSH TOGGLE SWITCHES

Cat. No.	Type	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.	Pkg. Wt.
1815-D	S-Pole	10T	5	10	100	20
1835-D	3-Way	10T	5	10	50	13
1844-D	4-Way	5T	2	2	10	4
	Ivorine					
1915-D	S-Pole	10T	5	10	50	11
1935-D	3-Way	10T	5	10	30	7
.....	4-Way	5T	2	2	10	4



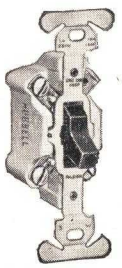
No. 9891

ACORN FLUSH TOGGLE SWITCHES

Bakelite Handle

10 A., 125 V.—5 A., 250 V.

Cat. No.	Type	Carton	Std. Pkg.	Pkg. Wt.
9891	S.P. In.	10	100	26
9893	3-Way	10	50	15
	Ivorine			
9891-I	S.P. Ind.	10	50	14
9893-I	3-Way	10	25	8



No. 9993

HUBBELL PUSH BUTTON SWITCHES



No. 4401

Cat. No.	Style	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.	Pkg. Wt.
4401	S.P.	10	5	10	100	32
4402	D.P.	....	10	10	50	19
4403	3-Way..	10	5	10	50	18
4404	4-Way..	5	2	10	10	5
	Lock Type					
4401L	S.P.	10	5	10	100	32
4402L	D.P.....	....	10	10	50	19
4403L	3-Way..	10	5	10	50	18
4404L	4-Way..	5	2	10	10	5
4405	Key	....	....	20	100	1

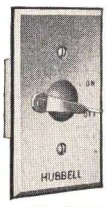
One key is furnished with each Lock Switch.

HUBBELL WEATHERPROOF SWITCHES

OUTDOOR WEATHERPROOF FLUSH SWITCHES

No. 7981-84. Cadmium finish brass plate fits over a rubber mat to make it watertight.

No. 7991-94 switches for FS fittings are furnished with steel, cadmium finished plates with rounded corners. Mechanism protected from moisture, weather, etc.



No. 7981



No. 7991

Cat. No.	Description	Amperes 125V.T.	Amperes 250V.	Carton	Std. Pkg.	Pkg. Wt.
7981	Single Pole	10	5	2	10	7
7982	Double Pole	10	10	2	10	7
7983	3-Way	10	5	2	10	7
7984	4-Way	5	2	2	5	4
	For "FS" Type Fittings					
7991	Single Pole	10	5	2	10	7
7992	Double Pole	10	10	2	10	7
7993	3-Way	10	5	2	10	7
7994	4-Way	5	2	2	5	4

HUBBELL DOOR SWITCHES

SMALL SIZE DOOR SWITCHES

Mounted In Porcelain-Lined Steel Box



No. 2022



No. 2035

Box dimensions are 1¼ x 2⅞ x 2¾ inches. Has ⅝- and ⅞-inch knockouts on ends and bottom.

Plate diameter 3¾x 1¼ inches.

Hole required, 1 1/16 inches wide, 2⅜ inches long and 1½ inches deep.

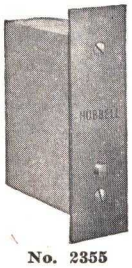
6 Amperes, 125 Volts
3 Amperes, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
2022	Switch" On" when door open....	5	25	14
2023	Switch "Off" when door open....	2	10	6
2035	Steel Box for Nos. 2022 and 2023	5	25	16

HUBBELL DOOR SWITCHES

SELF-RESTORING DOOR SWITCHES

With Box—Single-Pole



No. 2355

Plunger adjustable from 5/16 to 8/16 inch.

Complete with Brush Brass Plate, 4⅝x1¼ inches and round strike plate.

Length of Box, 3⅝ inches; width, 1¼ inches; depth, 2⅝ inches.

One ⅝-inch knockout in bottom, one ⅝-inch knockout in one end, and one ⅞-inch knockout in other end.

6 Amperes, 125 Volts
3 Amperes, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
2355	Switch "On" when door open....	1	25	31
2356	Switch "Off" when door open....	1	10	12

HUBBELL SURFACE SWITCHES

SURFACE SNAP SWITCHES

Polished Nickel Covers


No. 9512


No. 9527

Single Pole

Pony—6 Amp., 125 Volts—3 Amp., 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
*9510	S.P., Slotted	10	100	23
*9511	S.P., Slotted, Ind.	10	100	23
*9512	S.P., Solid	10	100	23
*9513	S.P., Solid, Ind.	10	100	23
	10 Amp., 125 Volts—5 Amp., 250 Volts			
†9515	S.P., Slotted, Ind.	10	100	42
†9517	S.P., Solid, Ind.	10	100	42

Three Way

3 Amp., 125 Volts—1 Amp., 250 Volts

•9330	3-Way, Slotted	10	100	25
•9331	3-Way, Solid	10	100	25

Double Pole

5 Amperes, 250 Volts

◊9521	D.P., Slotted, Ind.	10	100	35
◊9523	D.P., Solid, Ind.	10	100	35
	10 Amperes, 250 Volts			
#9525	D.P., Slotted, Ind.	10	100	42
#9527	D.P., Solid, Ind.	10	100	42

Four Way

5 Amp., 125 Volts—2 Amp., 250 Volts

×9540	4-Way, Slotted	10	30	12

*Diameter of base 2". Screws spaced 1 13/32".
•Diameter of base 2⅛". Screws spaced 1 7/16".
#Diameter of base 2 15/32". Screws spaced 1¾".
†Diameter of base 2 13/32". Screws spaced 1¾".
◊Diameter of base 2⅛". Screws spaced 1 7/16".
×Diameter of base 2½". Screws spaced 1¾".

HUBBELL CEILING PULL SWITCHES


No. 7651



No. 5020

Supplied with 8 feet of black cord. Diameter of base, 2½ inches. Mounting screws spaced 1 21/32 inches on centers.

Cat. No.	Description	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.
7650BC	S.P., Slotted	10	5	10	30	18
7652BC	D.P., Slotted	....	10	10	10	6
7653BC	3-Way, Slotted	10	5	10	10	8
	With Outlet Box Covers					
5020BC	S.P., 3¼-inch	10	5	10	30	22
5026BC	S.P., 4 -inch	10	5	10	30	25

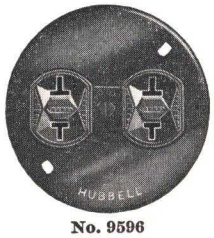
HUBBELL DEVICES FOR INSULATED SYSTEMS

ON BROWN BAKELITE BOX COVERS

Suitable for insulated or grounded installations. Ideal for farm installations where grounding is difficult. Bakelite cover is impervious to moisture and fumes.

CONVENIENCE OUTLETS

With Bakelite Covers



No. 9596

10 A., 125 V. — 5 A., 250 V.

Cat. No.	On Size Cover	Carton	Std. Pkg.	Pkg. Wt.
	"T" Slot Duplex Receptacle			
9596	3¼"	10	50	9
9597	4 "	10	50	10
	Acorn Duplex Receptacle			
9998	3¼"	10	50	9
9999	4 "	10	50	10

TOGGLE SWITCHES

With Bakelite Covers

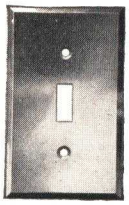
10 A., 125 V.T.—5 A., 250 V.

Cat. No.	On Size Cover	Carton	Std. Pkg.	Pkg. Wt.
	Single Pole — T-Rated			
7661	3¼"	10	50	10
7662	4 "	10	50	12
	3-Way Switch — T-Rated			
7663	3¼"	10	50	10
7664	4 "	10	50	12

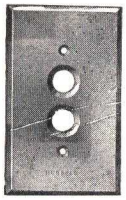


No. 7661

HUBBELL BRASS FLUSH PLATES
FOR TOGGLE AND PUSH SWITCHES



No. 8771



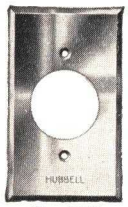
No. 8511

Struck-Up—.040-Inch Metal—Brush Brass

For Switches: Stand. Toggle	For Switches: 8121 Line	For Switches: Push	Description	Carton	Std. Pkg.	Pkg. Wt.
8771	8651	8511	Single-Plate	*	†	15
8772	8652	8512	2-Gang Plate	*	†	16
8773	8653	8513	3-Gang Plate	*	†	14
8774	8654	8514	4-Gang Plate	*	†	13

Struck-Up—.060-Inch Metal—Brush Brass

8751	8291	8551	Single Plate	*	†	30
8752	8292	8552	2-Gang Plate	*	†	28
8753	8293	8553	3-Gang Plate	*	†	25
8754	8294	8554	4-Gang Plate	*	†	23



No. 6835

BRASS FLUSH PLATES FOR SINGLE CONVENIENCE OUTLETS

Any of these plates may be assorted for standard package or carton quantity.

Special finishes and special features, prices on request.

Struck-Up—.040-Inch Metal—Brush Brass

Cat. No.	Description	Dimens., Inches	Carton	Std. Pkg.	Pkg. Wt.
6835	Single Plate	4½x2¾	10	100	17
6836	2-Gang Plate	4½x4 9/16	*	†	15
6837	3-Gang Plate	4½x6⅜	*	†	14

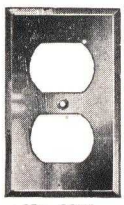
Struck-Up—.060-Inch Metal—Brush Brass

5548	Single Plate	4½x2¾	10	100	25
5549	2-Gang Plate	4½x4 9/16	*	†	22
6840	3-Gang Plate	4½x6⅜	*	†	20

BRASS FLUSH PLATES FOR DUPLEX CONVENIENCE OUTLETS

Any of these plates may be assorted for standard package or carton quantity.

Special finishes and special features, prices on request.



No. 6854

Struck-Up—.040-Inch Metal—Brush Brass

Cat. No.	Description	Dimens., Inches	Carton	Std. Pkg.	Pkg. Wt.
6854	Single Plate	4½x2¾	10	100	16
6855	2-Gang Plate	4½x4 9/16	*	†	15
6856	3-Gang Plate	4½x6⅜	*	†	14

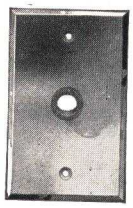
Struck-Up—.060-Inch Metal—Brush Brass

6258	Single Plate	4½x2¾	10	100	21
6259	2-Gang Plate	4½x4 9/16	*	†	18
6859	3-Gang Plate	4½x6⅜	*	†	15

†A standard package consists of 100 single plates or equivalent in gangs.

*A carton quantity is 10 gangs.

HUBBELL BRASS FLUSH PLATES
SINGLE OUTLET TELEPHONE PLATES



No. 6904

All kinds of telephone plates may be assorted to make standard package or carton quantity.

Furnished with adapter to 3 9/32 inches.

Struck-Up—.040-Inch Metal—Brush Brass

Cat. No.	Description	Dimens. Inches	Carton	Std. Pkg.	Pkg. Wt.
6904	Single Plate	4½x2¾	10	50	8
6905	2-Gang Plate	4½x4 9/16	*	†	7
6906	3-Gang Plate	4½x6⅜	*	†	7

Struck-Up—.060-Inch Metal—Brush Brass

6910	Single Plate	4½x2¾	10	50	12
6911	2-Gang Plate	4½x4 9/16	*	†	10
6912	3-Gang Plate	4½x6⅜	*	†	9

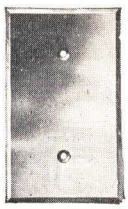
†A standard package consists of 50 single plates or equivalent in gangs.

*A carton quantity is 10 gangs.

BLANK PLATES

Screw spacings 2⅜ inches on centers.

Special finishes and special features are available, prices on request.



No. 6959

Struck-Up—.040-Inch Metal—Brush Brass

Cat. No.	Description	Dimens., Inches	Carton	Std. Pkg.	Pkg. Wt.
6959	Single Plate	4½x2¾	10	50	9
6960	2-Gang Plate	4½x4 9/16	*	†	8
6961	3-Gang Plate	4½x6⅜	*	†	8

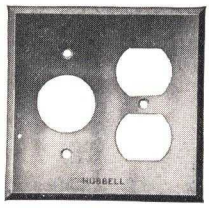
Struck-Up—.060-Inch Metal—Brush Brass

6964	Single Plate	4½x2¾	10	50	13
6965	2-Gang Plate	4½x4 9/16	*	†	11
6966	3-Gang Plate	4½x6⅜	*	†	10

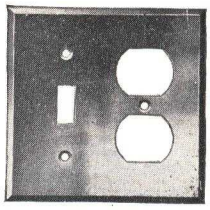
†A standard package consists of 50 single plates or equivalent in gangs.

*A carton quantity is 10 gangs.

COMBINATION BRASS PLATES



No. 7040



No. 7105

For Single and Duplex Convenience Outlets

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
7040	Single and Duplex, .040 inch	2	10	3
6749	Single and Duplex, .060 inch	2	10	5

For Toggle Switch and Duplex Convenience Outlets

7105	Switch and Duplex, .040 inch	2	10	3
7108	Switch and Duplex, .060 inch	2	10	5

P&S SURFEX WIRING DEVICES

SURFACE WIRING SYSTEM FOR NON-METALLIC CABLE

Easy-to-Wire—No boxes, connectors, soldering or taping. All current carrying parts mounted in porcelain bases which are not subject to carbonization under moist, dusty conditions. All switches are T-rated. Outlets have double grip contacts. Neat appearing, streamline design of bakelite covers.

All Surfex devices have buss bars for third wire or thru feed connections. Knockouts for knob and tube wiring. Width of devices permits mounting on 2 x 4 studs. Knockouts to take No. 12 or No. 14 standard non-metallic sheathed cable, 2 or 3 wire. Large wiring chambers for cross-overs.



Feed-thru Switches
5 Amps., 250 Volts
10 Amps., 125 Volts

Cat. No.	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
	Single Pole		
661	10	50	29
	Three-Way		
663	10	50	29

Keyless Lampholder
660 Watts, 250 Volt

Cat. No.	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
666	10	50	30





Rosette
660 Watts, 250 Volts

Cat. No.	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
668	10	50	26

Pull Lamp Holder
250 Watts, 250 Volts

Cat. No.	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
667	10	50	32



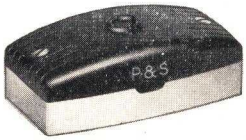


Duplex Convenience Outlet
10 Amps., 250 Volts
15 Amps., 125 Volts

Cat. No.	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
670	10	50	27

Junction Box
10 Amps., 250 Volts
15 Amps., 125 Volts

Cat. No.	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
669	10	50	26



P&S WIRING DEVICES

PORCELAIN INTERCHANGEABLE TWO-SCREW SOCKET BODIES



Key

Cat. No.	Watts	Carton	Std. Pkg.	Pkg. Wt.
O-26	250	10	100	28

Keyless

Cat. No.	Watts	Carton	Std. Pkg.	Pkg. Wt.
O-27	660	10	100	17





Pull, Brass Pendant

Cat. No.	Watts	Carton	Std. Pkg.	Pkg. Wt.
O-47	250	10	100	28

Key, Shurlok

Cat. No.	Watts	Carton	Std. Pkg.	Pkg. Wt.
O-38	250	10	100	38





Keyless, Shurlok

Cat. No.	Watts	Carton	Std. Pkg.	Pkg. Wt.
O-39	660	10	100	20

No. 1299 Shurlok Keys are not furnished with Shurlok Sockets and must be ordered separately.

PORCELAIN INTERCHANGEABLE TWO-SCREW SOCKET CAPS

Pendent for Reinforced Cord

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
O-PA	10	100	13





Straight Nipple—Brass

Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt.
O-PC	⅛	10	100	17
O-PE	⅜	10	100	17
O-PZ	½	10	100	26

Pendent Porcelain Cap with Cord Grip for ½-Inch Cord

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
O-PY	10	100	19



P&S WIRING DEVICES

MEDIUM BASE HUSK SOCKETS

These porcelain sockets are designed for show windows, show case, cove, trough or reflector lighting. Easily wired and installed.



No. 856

With Body Terminals

660 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
856	⅛-Inch	10	100	28
858	⅜-Inch	10	100	28
861	½-Inch	10	100	30
874	Body only 10	10	100	25

SIDE OUTLET SOCKETS

With Body Terminals

660 Watts, 250 Volts

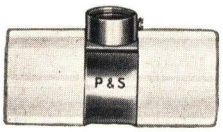
Cat. No.	Description	Std. Pkg.	Pkg. Wt.
926	⅛-Inch Nipple	100	30
927	⅜-Inch Nipple	100	30

Carton, 10.



No. 926

PORCELAIN DUPLEX SOCKETS



No. 1905

Especially suitable for show window and show case lighting.

660 Watts, 250 Volts

Cat. No.	Nipple Inch	Carton	Std. Pkg.	Pkg. Wt.
1905	⅜	10	100	40
1906	⅛	10	100	40

INTERMEDIATE BASE HUSK SOCKET

75 Watts, 250 Volts

⅛-Inch Cap



No. 6856

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
6856	Straight Cap	20	100	15

PORCELAIN REFLECTOR SOCKET BODY

660 Watts, 600 Volts



No. S-62

Designed for use in fixtures and reflectors suitable for Type C medium base lamps. Supporting screws spaced 1⅛ inches on centers. Length of body—2¼ inches, diameter 1¾ inches.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
S-62	10	100	36

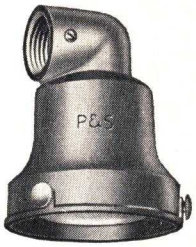
P&S WIRING DEVICES

WEATHERPROOF SOCKETS

660 Watts, 250 Volts



No. 8006



No. 8008

For permanent, sturdy installations. Porcelain socket interior. Die-cast metal shell — baked-on aluminum spray finish. 2¼-inch hooded shadeholder for shallow bowl or dome type reflectors.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
8006	With Hex. Cap for ½-inch Conduit	10	100	25
8007	⅜-inch Cap	10	100	22
8008	Angle Cap for ½-inch Conduit	10	100	65



No. 5464

BAKELITE PIN TYPE SOCKETS

Pin type sockets are for use in temporary decorative lighting work. Approved for either indoor or outdoor use. No stripping, splicing, soldering or taping of wires. The sockets are applied directly to the wire. Sharp pointed pins pierce the insulation and make positive contact. A detachable hook is supplied with each socket for hanging socket from tree or messenger wire.

Medium Base

For No. 12 or No. 14 Stranded Wire

Cat. No.	Rating Watts	Rating Volts	Carton	Std. Pkg.	Pkg. Wt.
5464	660	250	25	100	13

WEATHERPROOF PIGTAIL SOCKETS

660 Watts, 250 Volts

Bakelite with Shadeholder Groove

With shadeholder groove and 6-inch leads of No. 14 stranded rubber covered wire. Longer leads to order, at **$0.09** list per foot each conductor.



Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
43310	10	100	26



WATERTITE RUBBER SOCKET

660 Watts, 600 Volts

Weatherproof and non-breakable. 6-inch leads of No. 14 stranded wire are reinforced—no cement to melt or break out. Soft rubber lip grips lamp and seals socket.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
5474	10	100	20

P&S WIRING DEVICES

OUTLET BOX RECEPTACLES

With Metal Covers—Weatherproof

660 Watts, 600 Volts



No. 442



No. 443

Equipped with bright metallic finished covers which have key-hole slot for quick installation.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
442	For 3¼-Inch Box	10	100	60
443	For 4- Inch Box	5	100	72

With Screw Terminals

660 Watts, 250 Volts



No. 456



No. 457

Equipped with bright metallic finished covers which have key-hole slot for quick installation.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
456	For 3¼-Inch Box	10	100	53
457	For 4- Inch Box	5	100	63

KEYLESS—PORCELAIN

With Screw Terminals

660 Watts, 250 Volts



No. 41



No. 110

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
41	For 3¼-Inch Box	10	100	60
110	For 3¼ and 4-Inch Boxes	5	50	48

P&S WIRING DEVICES

PORCELAIN OUTLET BOX RECEPTACLES

With Shadeholder Groove

Pull—250 Watts, 250 Volts; Keyless—660 Watts, 250 Volts
Outlet—15 Amp., 125 Volts; 10 Amp., 250 Volts

ONE PIECE—FLUSH BACK



No. 4026-2



No. 5026-2

Cat. No.	Description	Carton	Std. Pkg.
	For 3¼-inch Outlet Boxes*		
4026	Insulated Nickel Chain	10	50
4026-2	Short Chain and Long Cord	10	50
	For 3¼- and 4-inch Outlet Boxes†		
4046	Insulated Nickel Chain	10	50
4046-2	Short Chain and Long Cord	10	50
	With Convenience Outlet		
	For 3¼-inch Outlet Boxes*		
5026	Insulated Nickel Chain	10	50
5026-2	Short Chain and Long Cord	10	50
	For 4-inch Outlet Boxes‡		
5046	Insulated Nickel Chain	10	50
5046-2	Short Chain and Long Cord	10	50

*Diameter base, 3⅝ inches; height overall, 2¼ inches; screw hole spacing, 2¾ inches.

†Diameter base, 4$\frac{1}{16}$ inches; height overall, 2¼ inches; elongated screw holes with knockouts spaced for 3¼- or 4-inch boxes.

‡Diameter of base, 4$\frac{1}{16}$ inches; height overall, 2¼ inches; screw hole spacing, 3½ inches.

TWO-PIECE—RECESSED BACK



No. 4011



No. 4058

For mounting on boxes with ears or studs.

For 3¼-Inch Boxes*

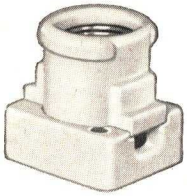
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
4011	Pull, with Short Chain, Long Cord	10	50	50
4058	Keyless	10	50	50
	For 4-Inch Boxes†			
4012	Pull, with Short Chain, Long Cord	10	50	65
4057	Keyless	10	50	65

*Diameter base, 4 inches; height, 2$\frac{3}{32}$ inches; screw hole spacing, 2¾ inches.

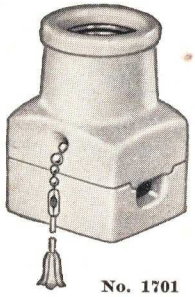
†Diameter base, 3¾ inches; height, 2$\frac{3}{32}$ inches; screw hole spacing, 3½ inches.

P&S WIRING DEVICES

PORCELAIN CABLETTES



No. 1700



No. 1701

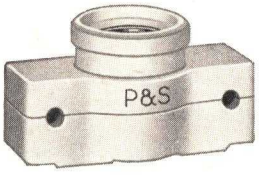
Cablettes are designed for use with non-metallic sheathed cable and permit installation directly on the surface without the use of boxes, clamps, connectors or soldering. Easy-to-wire two-piece design consisting of base and lampholder body. A removable knock-out is built into each device to close the opening when feed-thru is not required.

Rating—Keyless: 660 Watts, 250 Volts
Pull: 250 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
1700	Keyless Receptacle	10	50	20
1701	Pull Receptacle	10	30	29

PORCELAIN CLEAT RECEPTACLES

With Rectangular Base and Shadeholder Groove



No. 66612



No. 66613

Construction Quartermaster's Specification No. 8000-E permits the use of both surface and knob tube wiring. These receptacles are specified for installation where tube or open wiring is used.

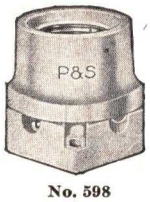
Rating—Keyless: 660 Watts, 250 Volts
Pull: 250 Watts, 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
66612	Keyless, 2-Piece	5	100	55
66613	Pull, 2-Piece	5	100	60

Dimensions: Keyless—$3\frac{1}{4}$x$1\frac{11}{16}$x$1\frac{11}{16}$ inches overall height, screw spacing $1\frac{5}{8}$ inches. Pull—$3\frac{1}{4}$x$1\frac{11}{16}$x$2\frac{3}{16}$ inches overall height, screw spacing, $1\frac{29}{32}$ inches.

PORCELAIN SURFACE RECEPTACLE

Concealed Terminals



No. 598

The collar of this receptacle is threaded onto the lamp shell. Base is slotted to accommodate either open or concealed wiring.

Diameter base, $1\frac{7}{8}$ inches; height, $1\frac{7}{8}$ inches; screw spacing, $1\frac{5}{32}$ inches.

660 Watts, 600 Volts

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
598	10	100	27

P&S WIRING DEVICES

PORCELAIN SURFACE RECEPTACLE



KEYLESS—HEAVY DUTY
660 Watts, 250 Volts

Keyless, heavy duty cleat. Provided with especially broad shoulders for supporting screws. Base is $2\frac{15}{16}$x$2\frac{11}{16}$ inches; height, $1\frac{5}{8}$ inches.

Without Shadeholder Groove

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
9402	10	100	35

PONY CLEAT
With Screw Terminals
660 Watts, 250 Volts

Pony cleat. Diameter of base is $2\frac{1}{2}$ inches. Height, $1\frac{5}{8}$ inches. Holes for supporting screws are on $1\frac{31}{32}$-inch centers.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
50715	10	100	28



No. 50715



No. 6715

INTERMEDIATE BASE
Cleat Receptacles
75 Watts, 250 Volts

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
6715	25	100	15

Diameter $1\frac{7}{8}$ inches; screw hole spacing $1\frac{1}{2}$ inches.

PULL CHAIN RECEPTACLES

250 Watts, 250 Volts

For outlet boxes, metal signs and lighting units. For use with $1\frac{1}{2}$-inch throat.

Pull, with Short Chain, Long Cord

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
998	10	100	35



No. 998

PORCELAIN SCREW RING RECEPTACLES

Keyless—Deep Back

660 Watts — 250 Volts

Length of back, $1\frac{1}{8}$ inches. Punch required, $1\frac{1}{2}$ inches.

Bronze screws are used for holding metal parts in complete assembly and assuring long life.



No. 61988

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
61988	Screw Terminals	25	100	22

P&S WIRING DEVICES

PORCELAIN SCREW RING RECEPTACLES

Keyless with Shallow Back



No. 4101



No. 4100



No. 4114

With Screw Terminals

Cat. No.	Watts	Volts	Carton	Std. Pkg.	Pkg. Wt.
4100	660	600	25	250	52
With Screw Terminals Enclosed					
4101	660	600	25	250	66
With 9-Inch No. 14 Rubber Covered Wire Leads					
4114	660	600	25	250	60
With No. 18 Heat Resisting Wire Leads					
4118	660	600	25	250	55

Length of back of above receptacles, $\frac{13}{16}$ inches. Punch required, 1½ inches.

Intermediate Base Receptacles



No. 6878

Length of back, 1⅛ inches. Punch required, $1\frac{1}{16}$ inches. Screw terminals.

75 Watts, 250 Volts

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
6878	25	100	15

Candelabra Base Receptacles

Length of back, $\frac{15}{16}$ inch. Punch required, $\frac{25}{32}$ inch.

75 Watts, 250 Volts

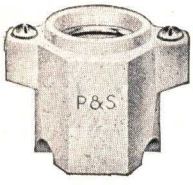
Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
878	25	100	10



No. 878

ONE-PIECE PORCELAIN SIGN AND FIXTURE RECEPTACLES

Edison Base



No. 54

Two mounting screws, screw terminals. Length of back above receptacle, $1\frac{7}{16}$ inches. Punch required, 1⅜ inches.

660 Watts, 600 Volts

Cat. No.	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.
54	$1\frac{13}{16}$	10	100	29

Edison Base—Clip Terminals

Two mounting screws, clip terminals. Length of back, $1\frac{7}{16}$ inches. Punch required, 1⅜ inches.

660 Watts, 250 Volts

Cat. No.	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.
5400	$1\frac{13}{16}$	10	100	24



No. 5400

Edison Base



No. 5403

With one spring stud and screw, screw terminals. Length of back, $1\frac{7}{16}$ inches. Punch required, 1⅜ inches.

660 Watts, 250 Volts

With Screw Terminals

Cat. No.	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.
5403	$1\frac{13}{16}$	10	100	24

P&S WIRING DEVICES

ONE-PIECE PORCELAIN SIGN AND FIXTURE RECEPTACLES

Medium Base



No. 5410

660 Watts, 250 Volts

Has four mounting screws—two mounting screws may be used to hold a reflector, the other two the receptacle.

Length of back, $1\frac{7}{16}$ inches. Punch required, 1⅜ inches. Screw spacing, $1\frac{13}{16}$ inches.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
5410	Screw Terminals	25	100	24

Candelabra Base for Indoor Use

Length of back, $\frac{15}{16}$-inch. Punch required, $\frac{25}{32}$-inch.

75 Watts, 250 Volts

Cat. No.	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.
677	$1\frac{3}{16}$	10	100	8

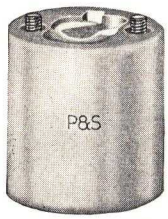


No. 677

MOGUL SOCKET BODIES

1500 Watts, 600 Volts

Mogul Socket Bodies



No. S-54

Diameter, $2\frac{7}{8}$ inches. Height, No. S-53, 3¼ inches; No. S-54, 2½ inches. With lamp grip.

Two-Piece Body

Cat. No.	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.
S-53	1½	5	50	42
One-Piece Body				
S-54	1½	5	50	29

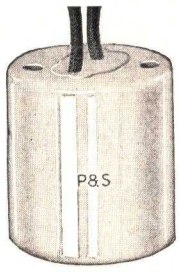
Mogul Socket Body

No. S-56 supplied with 15-inch slow burning triple braid No. 14 wires. Height, 2½ inches. Screws spaced 1½ inches on centers.

One-Piece Body with Wires

With Lamp Grip

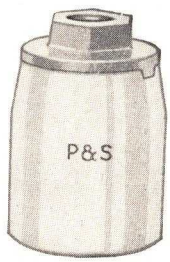
Cat. No.	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.
S-56	$2\frac{5}{16}$	5	50	42



No. S-56

COMPLETE MOGUL SOCKETS

1500 Watts, 600 Volts



No. 1553

Sockets are complete with aluminum finished cast iron caps. These sockets are especially adapted for reflector and commercial use.

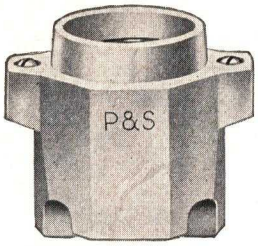
With ⅜-Inch Cap

Cat. No.	Height Inches	Diam. Inches	Carton	Std. Pkg.	Pkg. Wt.
1553	$3\frac{3}{16}$	2⅛	10	50	31
With ½-Inch Cap					
1554	$3\frac{3}{16}$	2⅛	10	50	33
Body Only					
S1514	$2\frac{9}{16}$	2⅛	10	50	27

P&S WIRING DEVICES

MOGUL RECEPTACLES

1500 Watts, 600 Volts



For Sign Work and Conduit Boxes

Punch required is 2 3/16 inches in diameter. Supporting screws are spaced 2¾ inches on centers.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
418	5	100	82

MOGUL CLEAT RECEPTACLE

1500 Watts, 250 Volts

For Open or Concealed Wiring

Diameter of base, 2⅝ inches. Supporting screws are spaced 2 inches on centers.



Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
516	10	50	38



MOGUL CLEAT RECEPTACLE

1500 Watts, 250 Volts

Base is 3½x3½ inches. Height, 2 7/16 inches. Supporting screws are spaced 2 13/16 inches on centers.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
520	5	50	35

PORCELAIN ROSETTES

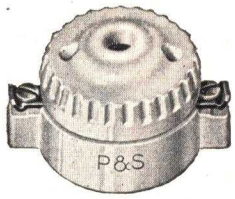
660 Watts, 250 Volts

2-Piece Fuseless—Cleat

Diameter of base, 2¼ inches. Height, 1 5/32 inches. Holes for supporting screws are spaced 1 3/32 inches on centers.



Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
*79	10	100	42



2-Piece Fuseless

Base is 2⅛x2⅞ inches. Holes for supporting screws are 1 7/16 inches on centers.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
*76	10	100	35

*Not N.E.C. Standard.

1-Piece Fuseless
For Cleat or Concealed Work

Base is 2 25/32x2 7/32 inches; height, 1¼ inches; holes for supporting screws are on 1 7/16 inch centers.



Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
1999	10	100	28

P&S WIRING DEVICES

SHADEHOLDERS



No. 119

For Standard Porcelain Sockets

For use with standard porcelain sockets and repectacles. Brush brass finish.

Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt.
119	2¼	24	288	16

ADAPTERS



No. 292



No. 6001

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
292	Mogul to Medium Base Adapter	10	100	19
6001	Medium to Intermediate Base	25	100	5



No. 1527

SINGLE CONVENIENCE OUTLETS

15 Amp., 125 Volts
10 Amp., 250 Volts

T-Slots

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
1527	Side Wired	10	100	22

SINGLE CONVENIENCE OUTLETS

With Cadmium Plated Box Covers

15 Amp., 125 Volts; 10 Amp., 250 Volts

Receptacles have parallel slots.



No. 1538

Cat. No.	Size Cover	Carton	Std. Pkg.	Pkg. Wt.
1538	3¼"	10	50	17
1539	4 "	10	50	21

DUPLEX CONVENIENCE OUTLETS

15 Amp., 125 Volts; 10 Amp., 250 Volts



No. 1520



No. 1560



No. 1530

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
1520	T-Slots, Top Wired	10	100	30
1530	T-Slots, Side Wired	10	100	20
1530-I	T-Slots, Side Wired (Ivory)	10	50	11
1560	Parallel Slots, Side Wired	10	100	15
1560-I	Parallel Slots, (Ivory)	10	50	9

P&S WIRING DEVICES

DUPLEX CONVENIENCE OUTLETS

15 Amp., 125 Volts; 10 Amp., 250 Volts


No. 1570

No. 1570 has double grip contacts; wide mounting ears, and break-off washers. A serviceable installation is assured by sturdy, all-bakelite construction. Large screw heads are ample for No. 10 wire.

Meets REA and Federal specifications.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
1570	Brown	10	100	20
1570-I	Ivory	10	50	11

DUPLEX CONVENIENCE OUTLETS

15 Amp., 125 Volts; 10 Amp., 250 Volts

Wide mounting ears for easy alignment with wall surfaces. No. 1565 has an all-bakelite body with back insulation of high grade laminated bakelite (non-moisture absorbing). Easy finding slots. Phosphor bronze contacts.


No. 1565

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
1565	Brown	10	100	15
1565-I	Ivory	10	50	9

DUPLEX CONVENIENCE OUTLETS

With Bright Metallic Finished Box Covers

15 Amp., 125 Volts; 10 Amp., 250 Volts


No. 1523

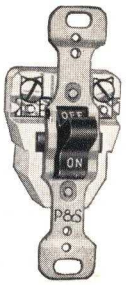
Cat. No.	Size Cover	Carton	Std. Pkg.	Pkg. Wt.
	With T-Slots			
1522	4 "	5	50	28
1523	3¼"	10	50	27
	With Parallel Slots			
1558	3¼"	10	50	22
1559	4 "	10	50	24

RESIDENTIAL TYPE FLUSH TUMBLER SWITCHES

Dimensions of Bakelite bodies: Length 1⅝ inches, width ⅞ inch, depth 1 inch.

With Porcelain Cups: Width $1\frac{13}{32}$ inches, length $2\frac{7}{16}$ inches, depth 1¼ inches. Dimensions of supporting screw spacings, $3\frac{9}{32}$ inches.


No. 1871

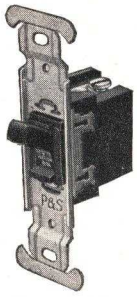

No. 4301

All Bakelite—Totally Enclosed

Cat. No. Brown	Cat. No. Ivory	Description	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.
1871	**1971**	S.P., Ind.	10	5	10	100
1873	**1973**	Three-Way	10	5	10	50
		With Porcelain Cups				
4301	**4301-I**	S.P., Ind.	10	5	10	100
4303	**4303-I**	Three-Way	10	5	10	50

P&S WIRING DEVICES

TUMBLER FLUSH SWITCHES—BAKELITE


No. 1815-D

P&S 1815-D type switches have T-rating for type C lamp loads. The mechanism is fully enclosed in a dust-proof bakelite housing. These switches meet all requirements for specification work or all purpose wiring. They are made to fit rectangular opening brass or bakelite plates. Their small size allows ample room in box for wiring and splicing.

One No. 1499 Key furnished with each lock switch.

Standard Type—Brown Bakelite

Cat. No.	Description	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.	Pkg. Wt.
1815-D	S.P., Ind.	10T	5	10	100	20
1825-D	D.P., Ind.	10	10	10	50	13
1835-D	Three-Way	10T	5	10	50	13
1844-D	Four-Way	5T	2	2	10	4
	Standard Type—Ivory					
1915-D	S.P., Ind.	10T	5	10	50	11
1925-D	D.P., Ind.	10	10	10	10	4
1935-D	Three-Way	10T	5	10	30	7
1944-D	Four-Way	5T	2	2	10	4
	Lock Type					
1815-DL	S.P., Ind.	10T	5	10	100	20
1825-DL	D.P., Ind.	10	10	10	50	13
1835-DL	Three-Way	10T	5	10	50	13
1844-DL	Four-Way	5T	2	2	10	4
	Single Pole—Momentary Contact—Brown					
1815-DMC	Cir. Nor. Closed	6	3	2	10	4
1815-DMO	Cir. Nor. Open	6	3	2	10	4
	Single Pole—Momentary Contact—Ivory					
1915-DMC	Cir. Nor. Closed	6	3	2	10	4
1915-DMO	Cir. Nor. Open	6	3	2	10	4

Dimensions of bakelite bodies — length 1½ inches, width ⅞-inch, depth $1\frac{5}{32}$ inches.

15-ampere switches for special application and switches with luminous handle can be furnished on order.

TUMBLER FLUSH SWITCHES

With Enclosed Composition Cups

P&S 3961 type switches have mechanisms totally enclosed in composition cups. Switch handles are brown bakelite.

Dimensions of cups—No. 3961, $2\frac{11}{16}$ inches long, $1\frac{3}{32}$ inches wide, 1⅜ inches deep; Nos. 3962, 3963, 3964 — $2\frac{11}{16}$ inches long, $1\frac{11}{16}$ inches wide, 1⅜ inches deep. Supporting screw spacing, $3\frac{9}{32}$ inches.


No. 3961

Cat. No.	Description	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.	Pkg. Wt.
3961	S.P., Ind.	10	5	10	50	15
3962	D.P., Ind.	10	10	2	10	5
3963	Three-Way	10	5	10	20	6
3964	Four-Way	5	2	2	10	5

*Quadruple break, indicating.

P&S WIRING DEVICES

PORCELAIN CUP SWITCHES

With Wide Mounting Ears

10 Amp., 125 Volts; 5 Amps., 250 Volts



No. 5301

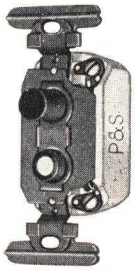
This sturdy porcelain cup switch has a mechanism designed for positive action and long wear. Binding screws are ample for No. 10 wire. Terminals are anchored rigidly to porcelain body. Contacts, phosphor bronze.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
5301	S.P., Brown	10	100	23
5301-I	S.P., Ivory	10	100	23
5303	3-Way, Brown	10	50	13
5303-I	3-Way, Ivory	10	50	13

PUSH BUTTON SWITCHES WITH PORCELAIN CUPS

Two-Button—Shallow Type

Cat. No.	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.	Pkg. Wt.
		Single Pole			
4305	10	5	10	100	33
		Three Way			
4307	10	5	10	50	20



No. 4305

SURFACE TUMBLER SWITCHES

With Bakelite Switch Covers

6 Ampere Type



No. 2610-BC

With bakelite covers. These switches have base diameter of 2 inches; screw center spacing 1⅜ inches.

Rating — Single-pole, 5 amperes, 125-volt; 3 amperes, 250-volt; 3-way, 5 amperes, 125 volt; 2 amperes, 250-volt.

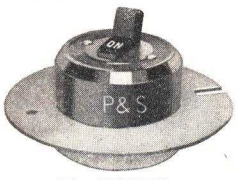
Single-Pole

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
2610-BC	Slotted Base	10	50	11
2611-BC	Solid Base	10	50	11
	Three-Way			
2614-BC	Slotted Base	10	50	11
2615-BC	Solid Base	10	50	11

SURFACE TUMBLER SWITCHES

With bakelite switch covers and cadmium plated outlet box covers as listed.

Rating — Single-pole, 5-amp. 125-volt; 3-amp. 250-volt. 3-Way, 5-amp. 125-volt; 2-amp. 250-volt.



No. 2646-BC

Single-Pole

Cat. No.	Size Outlet Box Cover	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
2646-BC	3¼-Inch	10	50	26
2647-BC	4 -Inch	10	50	34
	Three-Way			
2648-BC	3¼-Inch	10	50	26
2649-BC	4 -Inch	10	50	30

P&S WIRING DEVICES

SURFACE TUMBLER SWITCHES

10-Ampere Type



No. 3911-BC

With bakelite cover. Diameter base, 2 7/16 inches; height over cover, 1 9/16 inches; screw center spacing, 1¾ inches.

Rating—Single-pole and 3-way, 10 amp, 125-volt; 5-amp. 250-volt. Double-pole, 10-amp. 250-volt. 4-way, 5-amp. 125-volt; 2-amp. 250-volt.

With solid base.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
3911-BC	Single-Pole	10	100	41
3912-BC	Double-Pole	10	100	44
3913-BC	Three-Way	10	50	25
3914-BC	Four-Way	2	10	5

PULL SWITCHES—CEILING TYPE

With Bakelite Switch Covers

Rating—Single-pole and 3-way, 10-amp. 125-volt; 5- amp. 250-volt. Double-pole, 10-amp. 250-volt.

Diameter base, 2 7/16 inches; height over cover, 1 23/32 inches; screw center spacing, 1¾ inches.



No. 2387

Single-Pole

Cat. No.	Base	Carton	Std. Pkg.	Pkg. Wt.
2309	Slotted	10	30	19
2387	Solid	10	30	19
	Three-Way			
2310	Slotted	2	10	8
2388	Solid	2	10	8

P&S WIRING DEVICES

FEED-THRU OR PENDENT SWITCHES

10 Amp., 125 Volts—5 Amp., 250 Volts



No. 3093 Feed-Thru



No. 3093 Pendent

No. 3093 2-purpose switch is made of black bakelite. Built on the "rocker motion" principle, which insures an easy action, long life and perfect contact.

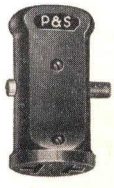
Supplied with an approved strain relief and acorn which permits its use as either a feed-thru or pendent switch.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
3093	Single Pole	10	50	10

BAKELITE PENDENT SWITCH AND OUTLET

This 3-wire, bakelite pendent switch and outlet controls light above and serves appliances below.

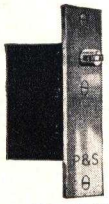
Bottom outlet, for parallel or tandem blade plug, is independent of switching mechanism.



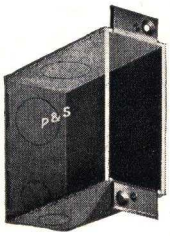
Cat. No.	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
H-9081	6	3	10	50	9

P&S WIRING DEVICES

NO. 6960 DOOR SWITCH AND BOX



No. 6960



No. 3047

Switch mounted in porcelain cup. Plate, 3¾x1¼ inches. Box has ⅝ and ⅞-inch knockouts on ends and bottom.

Rating of switch—6 amperes, 125 volts; 3 amperes, 250 volts.

Hole required: Box, 1¼ x 2⅞ x 2¾ inches deep; switch, 1⅛ x 2⅜ x 1½ inches deep.

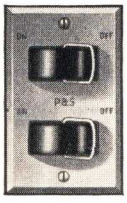
Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
6960	Light On, Door Open.....	5	25	17
6961	Light On, Door Closed.....	2	10	8
3047	Iron Box for Above.....	5	25	17

WEATHERPROOF FLUSH SWITCHES

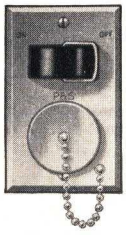
For Single Gang Installation



No. 4521



No. 4525



No. 4526

Ideal for installations where protection against the elements is necessary — in industrial plants, garages, creameries, distilleries, breweries, loading platforms, residences, etc. No corrosion, no short circuits due to moisture. Devices consist of neat, compact units—any one of these weatherproof devices may be installed in a single gang switch box or flat face FS fitting. Complete protection—each device is sealed with cover and plate gaskets.

Switches are "T" rated for Type C lamp loads. Outlets have constant tension contacts, gripping both sides of the plug cap blades. Plates are .060-inch brass with bright metallic finish—not affected by atmospheric conditions.

Nos. 4525 and 4526 are furnished with single pole switches. Switches may be easily interchanged with other P&S-Despard switches for double pole, three-way or four-way installations.

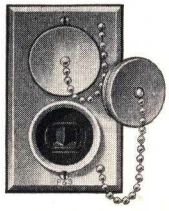
Outlet rating No. 4526 device: 15 amp., 125 volts; 10 amp., 250 volts.

Cat. No.	Description	Amperes 125V	Amperes 250V	Carton	Std. Pkg.	Pkg. Wt.
4521	Single Pole Switch....	10T	5	2	10	6
4522	Double Pole Switch..	10	10	2	10	6
4523	Three Way Switch....	10T	5	2	10	6
4524	Four Way Switch.....	5T	2	2	5	3
4525	Two S.P. Switches....	10T	5	2	10	7
4526	S.P. Switch & Outlet	10T	5	2	10	7

P&S WIRING DEVICES

WEATHERPROOF FLUSH RECEPTACLES

For Single Gang Installation

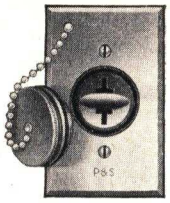


No. 4527



No. 4528

No. 1536



No. 1533

Outlets have constant tension contacts, gripping both sides of the plug cap blades. Plates are .060-inch brass with bright metallic finish—not affected by atmospheric conditions.

15 Amp., 125 Volts—10 Amp., 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Pkg.
4527	Duplex Outlet	2	10	7
4528	Protective Cap for Nos. 4526 and 4527	2	10	1
1533	Single Outlet (T-slot).....	2	10	7
1536	Protective Cap for No. 1533	2	10	1

FAN HANGER OUTLET

15 Amp., 125 Volts; 10 Amp., 250 Volts



No. 1535

Designed especially to provide electrical connections and mechanical support for fans. Fits standard 4-inch square box. Complete with .060-inch brass plate.

Cat. No.	Type	Carton	Std. Pkg.	Pkg. Wt.
1535S	Stud	10	20	32

CLOCK HANGER OUTLET

15 Amp., 125 Volts; 10 Amp., 250 Volts

Receptacle is recessed for attaching plug cap, allowing clock to hang flush with wall, eliminating the usual unsightly cord connection.

Supplied complete with .040-inch brush brass plate.

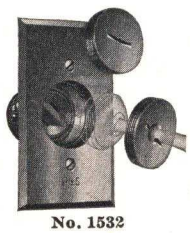


No. 1534

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
1534	2	10	5

FLOOR OUTLET

15 Amp., 125 Volts; 10 Amp., 250 Volts



No. 1532

With recessed receptacle for use in floors, base boards etc.

Furnished with two caps—one a cord hole cap for retaining attachment plug in receptacle, the other a protective flush screw cap which closes the outlet when device is not in use. Complete with .060-inch brush brass plate.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
1532	With 2 Flush Screw Caps	2	10	8

P&S-DESPARD LINE

INDUSTRIAL AND COMMERCIAL INSTALLATIONS

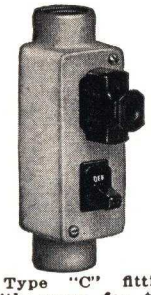
P&S-Despard wiring devices are particularly adapted for industrial and residential installations. Fittings manufacturers quickly saw the many possibilities and advantages of using P&S-Despard devices in their fittings and designed new covers with openings to take P&S-Despard switches, receptacles, etc.

The types of fittings illustrated below indicate in part some of the possibilities. In many cases it is possible to expand service from present outlets by purchasing new covers which are designed for use with P&S-Despard devices. This eliminates the expense of breaking the conduit line and installing a larger fitting, as is usually necessary when adding additional controls.





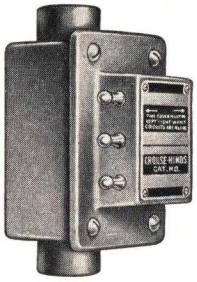
Type "C" fittings with cover for one P&S-Despard device.



Type "C" fitting with cover for two P&S - Despard devices.



Type "FS" fitting. Covers available for one, two or three P&S-Despard devices.



A new type explosion proof fitting with three P&S-Despard switches.







P&S-Despard devices are especially adapted for surface extension work. The small compact size of P&S-Despard devices allows use of three outlets in a single box.



3¼-inch outlet box with No. 1361 cover for one P&S-Despard device.

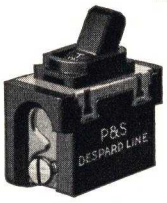


4-inch outlet box with No. 1363 cover for two P&S-Despard devices.

P&S-DESPARD LINE

FLUSH TUMBLER SWITCHES

Specification Type
All Bakelite — Totally Enclosed
T-Rated — As Indicated



No. 1311

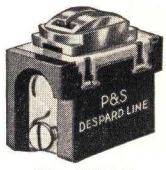
Totally enclosed in dust-proof housings. Switching mechanism has a four-point break to insure against breakdown from overloads. Contact member is designed to quickly snuff all arcs.

Brown Bakelite

Cat. No.	Description	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.
1311	Single Pole	10T	5	10	100
1312	Double Pole	10	10	2	10
1313	Three Way	10T	5	10	50
1314	Four Way	5T	2	2	10
	Ivory				
1411	Single Pole	10T	5	10	50
1412	Double Pole	10	10	2	10
1413	Three Way	10T	5	10	30
1414	Four Way	5T	2	2	10

FLUSH TUMBLER LOCK SWITCHES

Switch Bodies are brown bakelite. Tops are polished nickel. One key furnished with each lock switch.



No. 1311-L

Brown Bakelite

Cat. No.	Description	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.
1311L	Single Pole	10T	5	10	100
1312L	Double Pole ..	10	10	2	10
1313L	Three Way	10T	5	10	50
1314L	Four Way	5T	2	2	10
1498	Key for S. P. and 3-Way..	....	....	....	1
1499	Key for D. P. and 4-Way..	....	....	....	1

When installing P&S-Despard switches it is necessary to use mounting straps. The correct style of mounting strap is furnished, without charge, with each P&S-Despard plate.



No. 1311-MO

SINGLE POLE MOMENTARY CONTACT SWITCHES

These switches are of the same type and style as No. 1311.

Brown Bakelite

Cat. No.	Circuits	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.
1311MO	Normally Open	6	3	2	10
1311MC	Normally Closed	6	3	2	10
	Ivory				
1411MO	Normally Open	6	3	2	10
1411MC	Normally Closed	6	3	2	10

Switch dimensions: Single-pole and 3-Way — length 1⅝ inches, width $\frac{23}{32}$-inch, depth 1$\frac{3}{16}$ inches; Double-pole and 4-Way — length 1⅝ inches, width ⅞-inch, depth 1$\frac{5}{32}$ inches.

P&S-DESPARD LINE

FLUSH TUMBLER SWITCHES

All Bakelite — Totally Enclosed — T-Rated



No. 1311-LT

Luminous Handle

May be wired with either common or separate feed.

Brown Bakelite

Cat. No.	Description	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.
1311-LT	Single Pole	10T	5	10	100
1312-LT	Double Pole	10	10	2	10
1313-LT	Three-Way	10T	5	10	50
1314-LT	Four-Way	5T	2	2	10

Ivory

1411-LT	Single Pole	10T	5	10	50
1412-LT	Double Pole	10	10	2	10
1413-LT	Three-Way	10T	5	10	50
1414-LT	Four-Way	5T	2	2	10

RESIDENTIAL TYPE SWITCHES

Bakelite — Totally Enclosed

Brown Bakelite

Cat. No.	Style	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.
1391	S.P.	10	5	10	100
1393	3-Way	10	5	10	50

Ivory

1491	S.P.	10	5	10	50
1493	3-Way	10	5	10	30



No. 1391

SINGLE CONVENIENCE OUTLETS

Parallel Slots



No. 1320



No. 1327



No. 1341

For assembly in combination with switches, radio outlets or other P&S-Despard devices — Double, wide contacts grip both sides of the plug cap fingers.

15 Amps., 125 Volts; 10 Amps., 250 Volts

Cat. No. Brown	Cat. No. Ivory	Description	Carton	Std. Pkg. Brown	Std. Pkg. Ivory
1320	1420	Single Outlet	10	100	100
1341	1441	Pilot Light Outlet..	10	30	20
1327	1427	Insulating Adapter	10	50	30

Switch dimensions: Single-pole and 3-way — length 1⅝ inches, width $\frac{33}{64}$-inch, depth 1$\frac{7}{32}$ inches; double-pole and 4-way — length 1⅝ inches, width ⅞-inch, depth 1$\frac{5}{32}$ inches.

When installing P&S-Despard switches it is necessary to use mounting straps. The correct style of mounting strap is furnished, without charge, packed with each P&S-Despard plate.

P&S-DESPARD LINE

DUPLEX AND TRIPLEX CONVENIENCE OUTLETS



13202



13203

Have one-piece bakelite bodies, four binding screws for feed-thru circuits, and embody the same constant tension contacts as single convenience outlets.

15 Amp., 125 Volts; 10 Amp., 250 Volts

Duplex, Parallel Slots

Brown Cat. No.	Brown Carton	Brown Std. Pkg.	Ivory Cat. No.	Ivory Carton	Ivory Std. Pkg.
13202	10	100	14202	10	50

Triplex, Parallel Slots

13203	10	100	14203	10	50

Duplex, 2-Circuit

13202Y	10	100	14202Y	10	50

ATTACHMENT PLUG CAPS

Either regular or polarized, with finger grip feature and parallel blades. Due to their rectangular shape these caps are self-locating; $\frac{3}{32}$-inch cord hole.



Brown Bakelite Cat. No.	Brown Bakelite Std. Pkg.	Brown Bakelite Carton	Attachment Plug Caps	Ivory Cat. No.	Ivory Std. Pkg.	Ivory Carton
1321	100	10	Regular	1421	50	10
1326	100	10	Polarized	1426	50	10

RUBBER ATTACHMENT PLUG CAP



Two-piece, rectangular, black rubber attachment plug cap with parallel blades.

Cat. No.	Description	Carton	Std. Pkg.
DR	Two-piece, $\frac{5}{16}$" Cord Hole	25	100

RADIO OUTLET AND CAP



No. 1322



No. 1323

Outlets for antenna and ground connections can be assembled with switches and convenience outlets.

Radio Outlet

Brown Bakelite Cat. No.	Brown Bakelite Carton	Brown Bakelite Std. Pkg.	Brown Bakelite Pkg. Wt.	Ivory Cat. No.	Ivory Carton	Ivory Std. Pkg.	Ivory Pkg. Wt.
1322	2	10	1	1422	2	10	1

Radio Attachment Plug Cap

1323	2	10	1	1423	2	10	1

P&S-DESPARD LINE

PILOT LIGHTS AND NIGHT LIGHTS

With Metal Hoods and Reflectors



No. 1340

Each night light and pilot light is furnished complete with S-6, 6-watt, 120-volt lamp and metal reflector or hood.



No. 1339

Rating — 75 Watts, 125 Volts

Cat. No.	Description	Carton	Std. Pkg.
	Night Lights — With Clear Lamps		
1339	Chromium Plated Reflector	10	30
1339-B	Brush Brass Reflector	10	30
	Pilot Lights — With Red Lamps		
1340	Chromium Plated Hood	10	30
1340-B	Brush Brass Hood	10	30

When above Night Lights and Pilot Lights are desired without lamps, specify regular catalog number and suffix "LL." When Pilot Lights are desired with Clear Lamps, specify regular catalog number with suffix "CL."

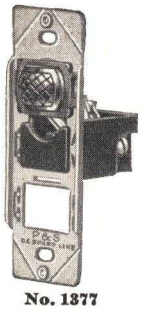
When installing the above devices, it is necessary to use mounting straps. The correct style of mounting strap is furnished without charge with each P&S-Despard plate.

FLUSH PILOT LIGHTS

Furnished complete with S-6, 6-watt, 120 volt, clear Mazda lamp and red jewel. No. 1376 is mounted in No. 1347 single opening strap. No. 1377, for use in combination with P&S-Despard switch or outlet, is mounted in No. 1348 strap.

75 Watts, 125 Volts

Cat. No.	Type	Carton	Std. Pkg.
1376	Single	10	30
1377	Combination	10	30



No. 1377

APPLIANCE STRAP



For mounting single P&S-Despard devices in small spaces. Ideal for appliance applications. Permits saving in space. Length, $2\frac{7}{32}$ inches; width, $\frac{29}{32}$ inch. Mounting screw holes spaced on $1\frac{13}{32}$-inch centers, tapped for 6-32 screws.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
1354	10	100	3

MOUNTING STRAPS

With each P&S-Despard plate is packed the correct style mounting strap for that particular plate. They may be ordered separately, as listed.

Cat. No.	Openings	Carton	Std. Pkg.	Pkg. Wt.
1347	Single	10	50	5
1348	Three	10	50	5



No. 1347



No. 1348

P&S-DESPARD LINE

REFLECTORS, HOODS AND LAMPS

For Use with P&S-Despard Night Lights and Pilot Lights



No. 1342



No. 1343



No. 1352



No. S-6 Clear

Cat. No.	Description	Std. Pkg.	Pkg. Wt.
1342	Red Plastic Jewel for Nos. 1376 and 1377	30	1½
1343	Chromium Plated Hood for No. 1340-B	30	2
1343-B	Brush Brass Hood for No. 1340-B	30	2
1352	Chromium Plated Reflector for No. 1339	30	2
1352-B	Brush Brass Reflector for No. 1339-B	30	2
S-6 Clear	Lamp Only (6W., 120V.)	120	5
S-6 Red	Lamp Only (6W., 120V.)	120	5

Carton quantity, 10.

BLANK, BELL PUSH, AND NAME PLATE



No. 1345



No. 1344



No. 1330

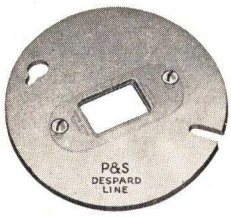
No. 1345 blank insert may be used to fill unused openings in P&S-Despard plates, is made with ⅜-inch cord hole.

No. 1344 is an all-bakelite bell push that will not discolor or be harmed by exposure to weather.

No. 1330, stainless steel, or No. 1330-1 brush brass, name plate with transparent window and blank card. Fits all P&S-Despard plate openings.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
1344	Bell Push (Brown)	10	20	2
1444	Bell Push (Ivory)	5	10	1
1345	Blank Insert (Brown)	5	10	1
1445	Blank Insert (Ivory)	5	10	1
1330	Name Plate (Stainless Steel Frame)	10	30	¼

METAL BOX COVERS



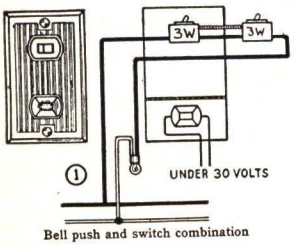
No. 1361

Furnished complete with No. 1354 appliance strap. Suitable for mounting any one P&S-Despard wiring device on a 3¼-inch box or one or two devices on 4-inch box.

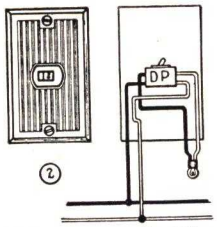
Cat. No.	For Box.	Carton	Std. Pkg.	Pkg. Wt.
Single Opening Round Cover				
1361	3¼	10	100	25
1362	4	10	100	33
Two Opening Round Cover				
1363	4	10	50	18

P&S-DESPARD LINE

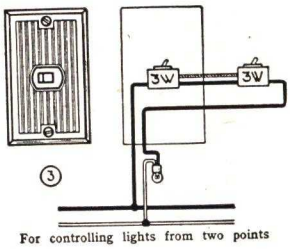
WIRING DIAGRAMS



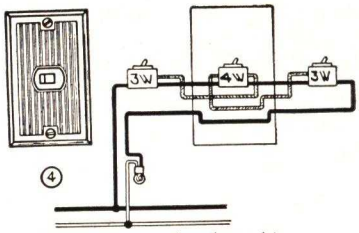
Bell push and switch combination



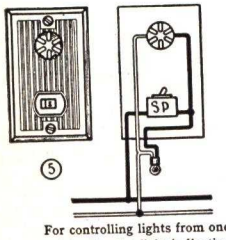
For Breaking both sides of line



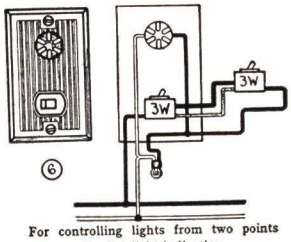
For controlling lights from two points



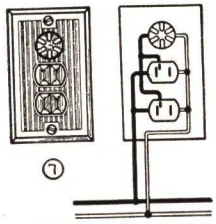
For controlling lights from three points



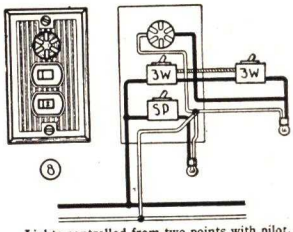
For controlling lights from one point with pilot light indication



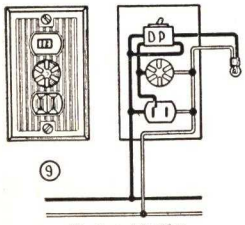
For controlling lights from two points with pilot light indication



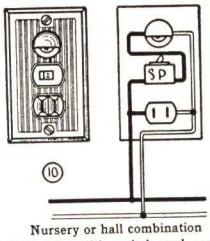
Two power outlets with pilot light indication



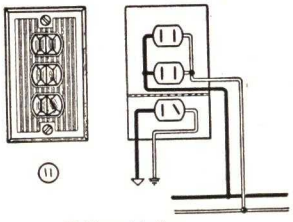
Lights controlled from two points with pilot, and lights controlled from one point



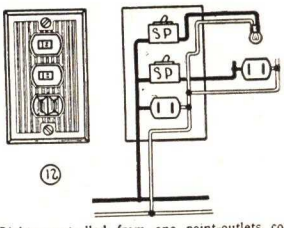
Dual combination
pilot indicates for outlet and cellar light



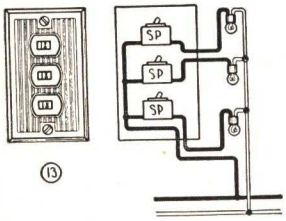
Nursery or hall combination
night light with switch and outlet



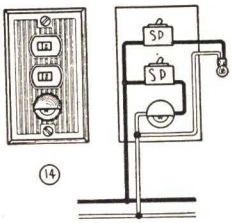
Radio combination
Two power and radio outlet



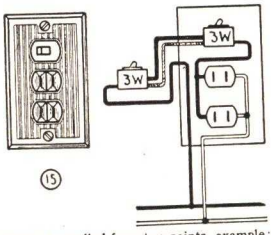
Lights controlled from one point-outlets controlled by switch and outlet hot for vacuum cleaner, etc.



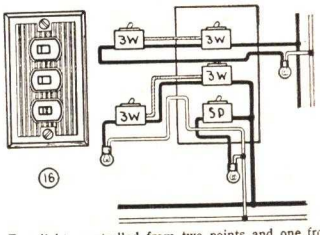
For controlling three lights individually from the same point



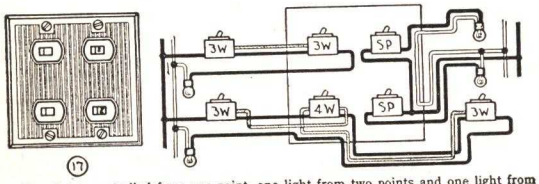
For controlling lights from one point and night light with switch



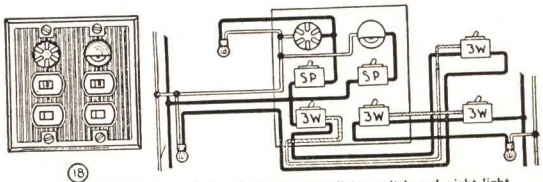
Outlets controlled from two points, example: switch in bedroom and switch and outlets in kitchen



Two lights controlled from two points and one from one point, example: living room, upper hall and porch



Two lights controlled from one point, one light from two points and one light from three points, example: porch, vestibule, living room and upper hall



Upper hall combination, switch and pilot for attic light, switch and night light for hall, 3 way for hall light and 3 way for living room light

P&S-DESPARD LINE

BROWN BAKELITE AND IVORY UNILINE WALL PLATES

FOR P&S-DESPARD DEVICES



No. 91041



No. 91011



No. 91021

Single Gang

Brown Cat. No.	Brown Carton	Brown Std. Pkg.	Brown Pkg. Wt.	Ivory Cat. No.	Ivory Carton	Ivory Std. Pkg.	Ivory Pkg. Wt.
			One Opening (Vertical)				
91041	10	100	14	92041	10	100	14
			One Opening (Horizontal)				
91011	10	100	16	92011	10	100	16
			Two Openings				
91021	10	50	8	92021	10	50	7
			Three Openings				
91031	10	30	6	92031	10	30	6
			Two Gang				
			Two Openings (Vertical)				
91042	10	50	16	92042	10	30	10
			Two Openings (Horizontal)				
91012	10	50	16	92012	10	30	10
			Four Openings				
91022	10	30	9	92022	10	30	9
			Six Openings				
91032	10	20	5	92032	10	20	5
			Two Openings in One Gang — One in Other				
91052	10	30	9	92052	10	30	9
			Three Gang—Six Openings				
91023	10	20	6	92023	10	20	6

SECTIONAL PLATES



No. 91311



No. 91321



No. 91331



No. 91411



No. 91421



No. 91431

Brown Cat. No.	Brown Carton	Brown Std. Pkg.	Brown Pkg. Wt.	Ivory Cat. No.	Ivory Carton	Ivory Std. Pkg.	Ivory Pkg. Wt.
			End Section, One Horizontal Opening				
91311	10	50	10	92311	10	50	10
			End Section, Two Openings				
91321	10	50	10	92321	10	50	10
			End Section, Three Openings				
91331	10	30	8	92331	10	30	8
			Center Section, One Horizontal Opening				
91411	10	50	9	92411	10	50	9
			Center Section, Two Openings				
91421	10	50	9	92421	10	50	9
			Center Section, Three Openings				
91431	10	30	7	92431	10	30	7

P&S-DESPARD LINE

NEW PROCESS METAL PLATES FOR P&S-DESPARD DEVICES



No. 1781-G



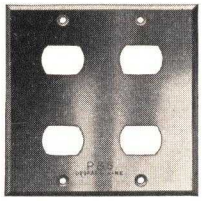
No. 1881-A



No. 1781-B

Brown-X and Ivory-X Plates

Brown-X Cat. No.	Ivory-X Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
		Single Gang			
1781-A	1881-A	1 Opening (*)	10	100	20
1781-B	1881-B	2 Openings	10	50	10
1781-C	1881-C	3 Openings	10	30	6
1781-G	1881-G	1 Opening (†)	10	100	20
		Two Gang			
1782-2A	1882-2A	2 Openings (*)	2	10	4
1782-2B	1882-2B	4 Openings	2	10	4
1782-2C	1882-2C	6 Openings	2	10	3
1782-2G	1882-2G	2 Openings (†)	2	10	4
		Three Gang			
1783-3A	1883-3A	3 Openings (*)	2	10	5
1783-3B	1883-3B	6 Openings	2	10	5
1783-3C	1883-3C	9 Openings	2	10	4
1783-3G	1883-3G	3 Openings (†)	2	10	5



No. 1792-2B



No. 1791-R



No. 1791-V

Chrome-X (.040" Stainless Steel) Plates

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
	Single Gang			
1791-A	1 Opening (horizontal)	10	100	22
1791-B	2 Openings	10	50	11
1791-C	3 Openings	10	30	7
1791-G	1 Opening (vertical)	10	100	19
1791-R	2 Openings (‡)	2	10	3
1791-V	2 Openings (§)	2	10	3
	Two Gang			
1792-2A	2 Openings (horizontal)	2	10	4
1792-2B	4 Openings	2	10	4
1792-2C	6 Openings	2	10	3
1792-2G	2 Openings (vertical)	2	10	4
	Three Gang			
1793-3A	3 Openings (horizontal)	2	10	5
1793-3B	6 Openings	2	10	5
1793-3C	9 Openings	2	10	4
1793-3G	3 Openings (vertical)	2	10	5

Wall plates listed above are supplied complete with the necessary straps for mounting P&S-Despard devices.

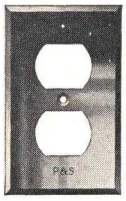
*Horizontal. †Vertical. ‡With one insulating adapter. §With two insulating adapters.

P&S WIRING DEVICES

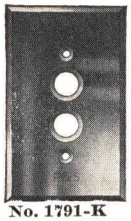
NEW PROCESS METAL PLATES FOR P&S DEVICES



No. 1781-D



No. 1791-F


No. 1791-K

Brown-X and Ivory-X Plates

Cat. No. Brown-X	Cat. No. Ivory-X	No. of Gangs	Description	Carton	Std. Pkg.
			Tumbler Switch Plates		
1781-D	1881-D	1	For 1 Switch....	10	100
1782-2D	1882-2D	2	For 2 Switches	5	50
1783-3D	1883-3D	3	For 3 Switches	3	30
1784-4D	1884-4D	4	For 4 Switches	3	25
1785-5D	1885-5D	5	For 5 Switches	2	20
1786-6D	1886-6D	6	For 6 Switches	2	15
			Convenience Outlet Plates		
1781-E	1881-E	1	For Single	10	100
1781-F	1881-F	1	For Duplex	10	100
1782-2F	1772-2F	2	For 2 Duplex....	5	50
			Combination Plates		
1782-DE	1882-DE	2	1 Tumbler Sw. and Single Outlet	2	10
1782-DF	1882-DF	2	1 Tumbler Sw. and Duplex Outlet	2	10
1783-DDF	1883-DDF	3	2 Tumbler Sw. and Duplex Outlet	2	10
			Push Button Switch Plates		
1781-K	1881-K	1	For 1 Switch....	10	100
			Blank and Telephone Plates		
1781-H	1881-H	1	Blank Plate	10	50
1781-S	1881-S	1	Cord Hole Plate	10	50
1781-W	1881-W	1	Round Opening..	10	50

Chrome-X (.040" Stainless Steel) Plates

Cat. No.	Description	Carton	Std. Pkg.
	Tumbler Switch Plates		
1791-D	1 Gang for 1 Switch.....	10	100
1792-2D	2 Gang for 2 Switches.....	5	50
1793-3D	3 Gang for 3 Switches.....	3	30
1794-4D	4 Gang for 4 Switches.....	3	25
1795-5D	5 Gang for 5 Switches.....	2	20
1796-6D	6 Gang for 6 Switches.....	2	15
	Convenience Outlet Plates		
1791-E	1 Gang for Single Outlet.....	10	100
1791-F	1 Gang for Duplex Outlet....	10	100
1792-2F	2 Gang for 2 Duplex Outlets	5	50
	Combination Plates		
1792-DE	2 Gang, 1 Tumbler Switch and Single Outlet.....	2	10
1792-DF	2 Gang, 1 Tumbler Switch and Duplex Outlet.....	2	10
1793-DDF	3 Gang, for 2 Tumbler Sw. and Duplex Outlet.....	2	10
	Push Button Switch Plates		
1791-K	One Gang for One Switch.....	10	100
	Blank and Telephone Plates		
1791-H	Single Gang Blank Plate.....	10	50
1791-S	Single Gang, Cord Hole Plate	10	50
1791-W	Round Opening, Telephone....	10	50

P&S WIRING DEVICES

BROWN BAKELITE AND IVORY UNILINE WALL PLATES

FOR P & S DEVICES



No. 91071



No. 91081



No. 91181

TUMBLER SWITCH PLATES

Brown Cat. No.	Brown Carton	Brown Std. Pkg.	Brown Pkg. Wt.	Ivory Cat. No.	Ivory Carton	Ivory Std. Pkg.	Ivory Pkg. Wt.
			One Gang for One Switch				
91071	25	100	10	92071	25	50	6
			Two Gang for Two Switches				
91072	10G	100G	10	92072	10G	50G	4
			Three Gang for Three Switches				
91073	10G	100G	10	92073	10G	50G	3
			Four Gang for Four Switches				
91074	10G	100G	10	92074	10G	50G	5
			Five Gang for Five Switches				
91075	10G	100G	8	92075	10G	50G	4
			Six Gang for Six Switches				
91076	10G	100G	7	92076	10G	50G	4

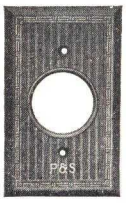
PUSH BUTTON SWITCH PLATES

			One Gang for One Push Button Switch				
91081	10	100	10	92081	10	50	6

BLANK AND TELEPHONE PLATES

			One Gang Telephone Plate, 13/32" Cord Hole				
91181	10	50	5	92181	10	30	5
			One Gang Blank Plate				
91121	10	50	8	92121	10	30	5
			Two Gang Blank Plate				
91122	10G	50G	10	92122	10G	30G	7

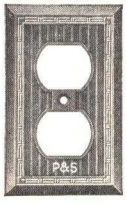
CONVENIENCE OUTLET PLATES



No. 91091



No. 91111



No. 91101

Brown Cat. No.	Brown Carton	Brown Std. Pkg.	Brown Pkg. Wt.	Ivory Cat. No.	Ivory Carton	Ivory Std. Pkg.	Ivory Pkg. Wt.
			One Gang for Duplex Convenience Outlet				
91101	25	100	8	92101	25	50	4
			Two Gang for Duplex Convenience Outlet				
91102	5G	50G	5	92102	5G	50G	5
			One Gang for Single Convenience Outlet				
91091	10	100	10	92091	10	50	6
			One Gang for No. 7438, 30 Amp. Convenience Outlet				
91111	10	30	3	92111	10	30	3

Blank plates are furnished with necessary straps and screws.

P&S WIRING DEVICES

BROWN BAKELITE AND IVORY UNILINE WALL PLATES

FOR P & S DEVICES

COMBINATION PLATES



No. 91532



No. 91572

Brown				Ivory			
Cat. No.	Carton	Std. Pkg.	Pkg. Wt.	Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
Two Gang for Tumbler Switch and Single Convenience Outlet							
91512	2	10	1½	**92512**	2	10	1½
Three Gang for Two Tumbler Switches and Single Convenience Outlet							
91523	2	10	2½	**92523**	2	10	2½
Two Gang for Tumbler Switch and Duplex Convenience Outlet							
91532	2	10	1½	**92532**	2	10	1½
Three Gang for Three Tumbler Switches and Duplex Convenience Outlet							
91543	2	10	2½	**92543**	2	10	2½
Four Gang for Three Tumbler Switches and Duplex Convenience Outlet							
91554	2	10	3	**92554**	2	10	3
Two Gang for One Single and One Duplex Convenience Outlet							
91572	2	10	2	**92572**	2	10	2

Note: All P&S-Despard Uniline plates are furnished with correct mounting straps.

Black Bakelite—All Uniline plates can be furnished in black bakelite—Specify numbers in 93000 series, i.e., Cat. No. 91071 would be 93071 in black, etc.

Plate Screws—All brown bakelite plates are furnished as standard with brown plated screws. Ivory plates are furnished as standard with ivory enameled screws.

MULTI-GANG AND COMBINATION PLATES

INSTRUCTIONS FOR ORDERING

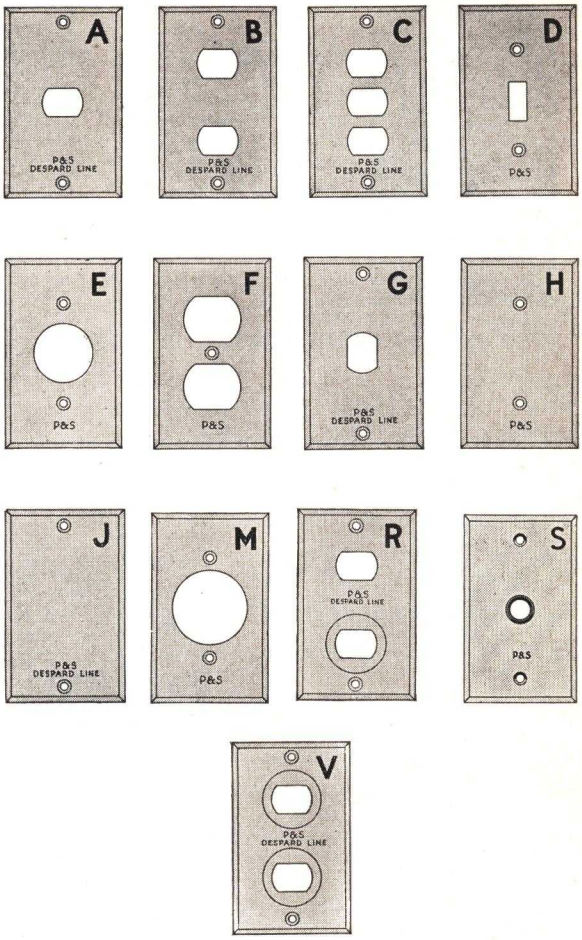
The number of gangs and thickness of plate are covered by the basic catalog number to which must be added the symbols for the opening or openings desired in each gang. The symbols should be placed after the basic catalog number in proper order, reading from left to right.

Basic Catalog Numbers

Number of Gangs	.040" Brush Brass	Number of Gangs	.060" Brush Brass
Two	**1772**	Two	**1672**
Three	**1773**	Three	**1673**
Four	**1774**	Four	**1674**
Five	**1775**	Five	**1675**
Six	**1776**	Six	**1676**

Examples: When a three gang, horizontal, .040" Brush Brass plate is desired for three P&S-Despard devices in the first gang, one tumbler switch in the second gang and a duplex receptacle in the third gang, specify 1—1773-CDF.

P&S AND P&S-DESPARD COMBINATION PLATES



Combination Symbols

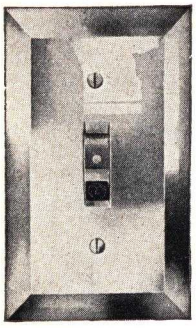
A combination plate must be made up of two or more different symbols.

Symbol	Description
A	Despard Single Opening (Horizontal)
B	Despard Two Openings
C	Despard Three Openings
D	Tumbler
E	Single Receptacle (10 Ampere)
F	Duplex Receptacle
G	Despard Single Opening (Vertical)
H	Blank (Screws spaced on 2⅜ inch centers)
J	Despard Blank (Screws spaced on 3 1/8 inch centers)
M	Single Receptacle (30 Ampere)
†R	Despard Two Openings, One Insulating Adapter for Outlet
S	Telephone, One Opening, (Screws spaced on 3 9/32 inch centers)
†V	Despard Two Openings, Two Insulating Adapters for Outlets

A standard package of any combination plate not listed by catalog number consists of ten identical plates; carton quantity, two plates.

†Regularly supplied with Brown Bakelite Adapters. Can be furnished on order with Ivory Adapters at an additional cost.

HARING MIRROR GLASS SWITCH PLATES



TUMBLER SWITCH PLATES

Cat. No.	Description	Carton Qty.
101	1 Gang Toggle	10
102	2 Gang Toggle	5
103	3 Gang Toggle	5
104	4 Gang Toggle	1
105	5 Gang Toggle	1
106	6 Gang Toggle	1

COMBINATION SWITCH PLATES

No.	Description		Carton Qty.
101R	2 Gang Plate	1 Toggle-Recep.	5
102R	3 Gang Plate	2 Toggle-Recep.	5
103R	4 Gang Plate	3 Toggle-Recep.	1
101DR	2 Gang Plate	1 Toggle-Duplex	5
102DR	3 Gang Plate	2 Toggle-Duplex	5
103DR	4 Gang Plate	3 Toggle-Duplex	1

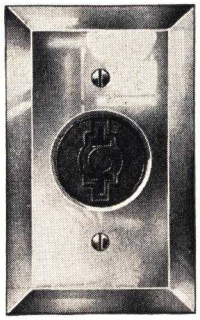
RECEPTACLE PLATES

Single Receptacle

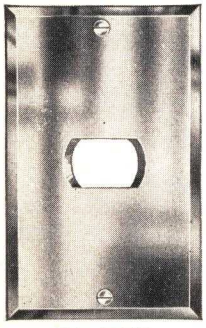
Cat. No.	Description	Carton Qty.
100R	1 Gang Recep.	10

Duplex Receptacle

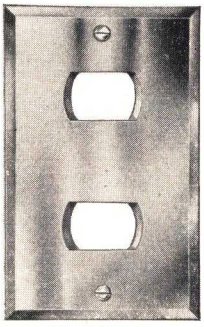
100DR	1 Gang Duplex	10



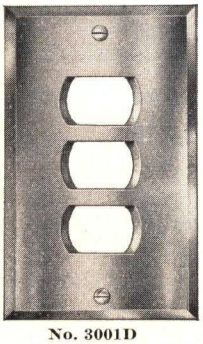
P. & S. DESPARD LINE



No. 1001D



No. 2001D



No. 3001D

P&S No.	Haring No.	P&S No.	Haring No.
1331*	0001D*	1335	0002D
1381	1001D	1382	1002D
1332	2001D	1334	2002D
1333	3001D	1336	3002D

*Single, vertical opening.

ARROW WIRING DEVICES

UNO SHADEHOLDERS

With Ventilating Holes



No. 501



No. 502

Cat. No.	Size Inches	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
501*	2¼	50	500	25	$24.00
502†	2¼	50	250	14	.....
504†	Form H	25	100	11	.....
505*	3¼	25	250	27	.....
511*	4	10	100	16	.....

*With screws. †With wire spring.

Standard finish is brass.



No. 6080

SHADEHOLDERS FOR BRASS SOCKETS

Without Uno Thread
With Screws

Cat. No.	Size Inches	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
6080	2¼	24	250	13	$24.00

SHADEHOLDERS FOR WEATHERPROOF SOCKETS

Fit any porcelain or composition device provided with shadeholder groove. Standard finish is wash nickel. With screws.



No. 628

Cat. No.	Size Inches	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
628	2¼	25	250	17	$24.00
629	3¼	10	100	9	34.00

MOMENTARY CONTACT PUSH SWITCHES

1-Circuit, 1 Push Button, 2 3/16-Inch Porcelain Base



No. 2179

These switches have a quick make and break mechanism. The 2-circuit type has two separate single-pole switches, each controlling a separate circuit, but both cannot be operated at the same time. Supplied with metal button regular length if desired. Add "M" to the catalog number. See Price List.

Single-Pole, Normally Open

Cat. No.	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
2179	....	6	2	10	6	$345.00

Single-Pole, Normally Open, Lock Style

2179-L	....	6	2	10	6	436.00

Single-Pole, Normally Closed

3661	....	6	2	10	6	345.00

Single-Pole, Normally Closed, Lock Style

3661-L	....	6	2	10	6	436.00

Key for Lock Switches

5003	....	..	2	10	1	20.00

These switches take one-button-opening plates.

ARROW WIRING DEVICES

MOMENTARY CONTACT PUSH SWITCHES


No. 6870

1-Circuit, 1 Push Button
1-Inch Porcelain Base

These switches take one-button-opening plates.

Supplied Lock Style if desired.

Cat. No.	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
		Single-Pole, Normally Open				
6870	10	5	2	10	3	$183.00
		Single-Pole, Normally Closed				
6871	10	5	2	10	3	183.00
		Three-Way				
1608	10	5	2	10	4	196.00
		Double-Pole, Normally Open				
6874	....	10	2	10	4	274.00
		Double-Pole, Normally Closed				
1607	....	10	2	10	4	274.00

MOMENTARY CONTACT PUSH SWITCHES

Single-Pole, 2-Circuit
2 Push Buttons

$2\frac{3}{16}$-inch porcelain base. No. 2363 has $1\frac{1}{2}$-inch porcelain base. These switches take standard push plates.


No. 6894

Cat. No.	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
		Normally Open				
6894	....	6	2	10	7	$436.00
		Normally Open, Lock Style				
6894-L	....	6	2	10	7	519.00
		One-Circuit Normally Open, Other Closed				
6848	....	6	2	10	7	436.00
		Same, Lock Style				
6848-L	....	6	2	10	7	519.00
		Both Circuits Normally Open				
2363	....	2	2	10	5	273.00
		Key for Lock Switches				
5003	....	..	2	10	1	20.00

MOMENTARY CONTACT TUMBLER SWITCHES


No. 1631

Single-Pole, 1-Inch Base
Normally Open, Porcelain

Cat. No.	Amperes 125 V.	Amperes 250 V.	Pkg. Wt.	Price Per 100
6886	10	5	4	$175.00
	Normally Closed, Porcelain			
1631	10	5	4	175.00

Standard package 10; carton 2.

ARROW WIRING DEVICES

DOOR SWITCHES


No. 6550

These switches are rectangular in shape, mounted in a porcelain base, and fit all standard door switch boxes.

Size of plate, 4⅝ by 1¼ inches; hole required $1\frac{1}{16}$ by $3\frac{3}{8}$ by $1\frac{5}{8}$ inches.

Striker plates are furnished with each door switch.

6 Amps., 125 Volts—3 Amps., 250 Volts

Cat. No.	Light is On When Door is	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
6550	Open	5	25	15	$407.00
6551	Closed	2	10	6	407.00

RECIPROCATING HEATER SWITCHES



No. 9612

ABBREVIATIONS

SPSP —Single Pole, Series Parallel

DPSP —Double Pole, Series Parallel

DP —Double Pole



No. 9812

Cat. No.	Description	Amperes 125V.	Amperes 250V.	Base Screw Dia. In.	Base Screw Holes C.C.	Price Per 100
9602	SPSP, 3 heat†	6	3	2	$1\frac{5}{32}$"	$242.00
9802	DP, Single Heat, "On," "Off"	6	3	2	$1\frac{5}{32}$"	242.00
9612	SPSP, 3 heat†	10	5	$2\frac{3}{16}$	$1\frac{5}{32}$"	273.00
9712	DPSP, 3 heat †	10	5	$2\frac{3}{16}$	$1\frac{5}{32}$"	304.00
9812	DP, Single Heat, "On," "Off"	10	5	$2\frac{3}{16}$	$1\frac{5}{32}$"	273.00
9622	SPSP, 3 heat†	15	7½	2½	$1\frac{11}{16}$"	290.00
9722	DPSP, 3 heat†	15	7½	2½	$1\frac{11}{16}$"	319.00
9822	DP, Single Heat, "On," "Off"	15	7½	2½	$1\frac{11}{16}$"	290.00
9632	SPSP, 3 heat†	20	10	$2\frac{13}{16}$	$1\frac{11}{16}$"	319.00
9732	DPSP, 3 heat†	20	10	$2\frac{13}{16}$	$1\frac{11}{16}$"	378.00
9832	DP, Single Heat, "On," "Off"	20	10	$2\frac{13}{16}$	$1\frac{11}{16}$"	319.00
9642	SPSP, 3 heat†	24	12	3	2⅛"	378.00
9842	DP, Single Heat, "On," "Off"	24	12	3	2⅛"	378.00
9652	SPSP, 3 heat†	30	15	$3\frac{5}{16}$	2⅛"	464.00
9752	DPSP, 3 heat†	30	15	$3\frac{5}{16}$	2⅛"	524.00
9852	DP, Single Heat, "On," "Off"	30	15	$3\frac{5}{16}$	2⅛"	464.00
9662	SPSP, 3 heat†	36	18	3⅝	$2\frac{11}{16}$"	581.00
9762	DPSP, 3 heat†	36	18	3⅝	$2\frac{11}{16}$"	755.00
9862	DP, Single Heat, "On," "Off"	36	18	3⅝	$2\frac{11}{16}$"	581.00
9672	SPSP, 3 heat†	42	21	4	$2\frac{11}{16}$"	720.00
9772	DPSP, 3 heat†	42	21	4	$2\frac{11}{16}$"	900.00
9872	DP, Single Heat, "On," "Off"	42	21	4	$2\frac{11}{16}$"	720.00

†High, Medium, Low, Off.

Standard Package, 10; Carton, 2.

ARROW WIRING DEVICES
SURFACE SNAP SWITCHES



No. 6210

Double Pole — 250 Volt

Base 2⅛ Inches; Screw Spacing 1⅞ Inches

Cat. No.	Base	Amps. 250 V.	Carton.	Std. Pkg.	Pkg. Wt.	Price Per 100
6208	Slotted, Non-Ind.	5	10	100	28	$102.00
6209	Slotted, Ind.	5	10	100	30	121.00
6210	Closed, Non-Ind.	5	10	100	28	102.00
6211	Closed, Ind.	5	10	100	30	121.00
	Base 2 13/32 Inches; Screw Spacing 1¾ Inches					
6216	Slotted, Ind.	10	10	100	43	140.00
6218	Closed, Ind.	10	10	100	43	140.00
	Base 3⅛ Inches; Screw Spacing 2 5/32 Inches					
6121	Slotted, Ind.	20	2	30	26	273.00
6123	Closed, Ind.	20	2	30	26	.....
	Base 3⅝ Inches; Screw Spacing 2⅞ Inches					
6626	Slotted, Ind.	30	2	30	33	326.00
6628	Closed, Ind.	30	2	30	33	.....
	Base 4¼ Inches; Screw Spacing 3⅞ Inches					
3616	Slotted, Ind.	50	2	10	21	.....
3615	Closed, Ind.	50	2	10	21	.....

Three-Way

Base 2⅛ Inches; Screw Spacing 1⅞ Inches

Cat. No.	Base	Amperes 125V.	Amperes 250V.	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
6227	Slotted	3	1	10	100	27	.....
6228	Closed	3	1	10	100	27	.....
6225	Slotted	5	3	10	100	30	$94.00
6226	Closed	5	3	10	100	30	.....
	Base 2 13/32 Inches; Screw Spacing 1⅞ Inches						
6229	Slotted	10	5	10	50	21	140.00
6230	Closed	10	5	10	50	22	.....
	Base 3⅛ Inches; Screw Spacing 2 5/32 Inches						
6124	Slotted	20	....	2	10	8	273.00
6125	Closed	20	....	2	10	8	.....
	Base 3⅝ Inches; Screw Spacing 2⅞ Inches						
6629	Slotted	30	....	2	10	11	.....
6630	Closed	30	....	2	10	11	.....

Four-Way

Base 2 13/32 Inches; Screw Spacing 1¾ Inches

6231	Slotted	5	2	10	30	12	297.00
6232	Closed	5	2	10	30	12	.....
	Base 2 11/16 Inches; Screw Spacing 2⅛ Inches						
6367	Slotted	10	5	2	10	5	346.00
6368	Closed	10	5	2	10	5	.....

Triple-Pole, Indicating

Base 2 11/16 Inches; Screw Spacing 2⅛ Inches

Cat. No.	Base	Amps. 250 V.	Carton.	Std. Pkg.	Pkg. Wt.	Price Per 100
326	Slotted	10	2	10	6	$364.00
226	Closed	10	2	10	6	364.00
	Base 3 7/32 Inches; Screw Spacing 2 23/32 Inches					
8514	Slotted	20	2	10	15	455.00
8513	Closed	20	2	10	15	.....
	Base 3⅛ Inches; Screw Spacing 2⅛x2 13/32 Inches					
8608	Slotted	20	2	10	12	.....
8607	Closed	20	2	10	12	.....
	Base 4¼ Inches; Screw Spacing 3⅛ Inches					
2658	Slotted	30	2	10	21	.....
2657	Closed	30	2	10	21	.....

ARROW WIRING DEVICES
SURFACE SNAP SWITCHES
Nickel Finish, Metal Covers



No. 6234

Four-Pole, Indicating For Two Phase, 4-Wire Motors

Base 3⅛ Inches; Screw Spacing 2⅛x2 13/32 Inches

Cat. No.	Base	Amps. 250 V.	Carton.	Std. Pkg.	Pkg. Wt.	Price Per 100
8813	Closed	20	2	10	12	.....
8814	Slotted	20	2	10	12	.....

Two Circuit, Indicating, Electrolier
1, 2, 1&2, Off

Cat. No.	Base	Amperes 125V.	Amperes 250V.	Base Screw Diam. In.	Screw Spac. In.	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
6234	(S)	5	2	2 15/32	1¾	2	10	4	$182.00
6236	(C)	5	2	2 15/32	1¾	2	10	4	.....
	1, Off, 2, Off								
6157	(S)	10	5	2 15/32	1¾	2	10	4	.....
6159	(C)	10	5	2 15/32	1¾	2	10	4	.....
2597	(S)	20	10	3 1/16	2 5/32	2	10	9	274.00
2596	(C)	20	10	3 1/16	2 5/32	2	10	9	.....
	1, 2, Off								
2614	(S)	10	5	2 15/32	1¾	2	10	4	182.00
2613	(C)	10	5	2 15/32	1¾	2	10	4	.....
2499	(S)	20	10	3½	2 9/16	2	10	12	.....
2498	(C)	20	10	3½	2 9/16	2	10	12	.....
	1, 1&2, Off								
2605	(S)	10	5	2 15/32	1¾	2	10	4	182.00
2604	(C)	10	5	2 15/32	1¾	2	10	4	.....
2485	(S)	20	10	3½	2 9/16	2	10	12	.....
2484	(C)	20	10	3½	2 9/16	2	12	12	.....
	1&2, 1, Off								
2610	(S)	10	5	2 15/32	1¾	2	10	4	.....
2609	(C)	10	5	2 15/32	1¾	2	10	4	.....

Three Circuit, Indicating, Electrolier
1, 1&2, 1&2&3, Off

6238	(S)	5	2	2 15/32	1¾	2	10	4	182.00
6240	(C)	5	2	2 15/32	1¾	2	10	4	.....
	1, 2, 3, Off								
6193	(S)	5	2	2 15/32	1¾	2	10	4	182.00
6195	(C)	5	2	2 15/32	1¾	2	10	4	.....
2728	(S)	20	10	3 1/16	2 5/32	2	10	9	.....
2727	(C)	20	10	3 1/16	2 5/32	2	10	9	274.00

(S) Signifies Slotted Base.
(C) Signifies Closed Base.

LEVITON WIRING DEVICES

BRASS SHELL SOCKETS


No. 8002


No. 9842


No. 9347


No. 9998

With ⅛-Inch Cap

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
8002	Pull, 250 W., 250 V.	25	250	46
9842	Key Socket, 250 W., 250 V.	25	250	50
9843	Keyless, 660 W., 250 V.	25	250	45
9347	Short Electrolier Keyless, 660 Watts, 250 Volts	25	500	61
9998	Electrolier, Push-Thru, 250 Watts, 250 Volts	25	250	33

BAKELITE SHELL SOCKETS

Medium Base—660 Watts—250 Volts


No. 95000


No. 95020

Pull Chain Socket

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
With ⅛-inch Cap			
95000	10	250	37
Pendant Cap			
95003	10	250	37
Key Socket			
With ⅛-inch Cap			
95020	10	250	42
Pendant Cap			
95023	10	250	42

BAKELITE PULL CHAIN CURRENT TAP

250 Watts, 250 Volts



Cat. No.	Finish	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
1406	Black	25	250	39
91406	Brown	25	250	39
1406-I	Ivory	25	250	39

BAKELITE OFFSET TWIN PULL CHAIN SOCKET

250 Watts, 250 Volts



Cat. No.	Finish	Carton	Std. Pkg.	Pkg. Wt.
1407	Black	10	250	42
91407	Brown	10	250	42
1407-I	Ivory	10	250	42

PORCELAIN OUTLET BOX RECEPTACLES

660 Watts—250 Volts

With Open Terminals Flush Back

For 3¼-inch outlet box. With shade holder groove.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
9874	10	100	51





With Open Terminals and Galvanized Metal Plate

For 3¼-inch box. With shade holder groove.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
9870	10	100	43

Prices furnished upon request.

LEVITON WIRING DEVICES

PORCELAIN PULL RECEPTACLES

250 Watts—250 Volts



For 3¼-Inch Box

With groove for shade holder. Holes for supporting screws are spaced 2¾ inches on centers. With 4-foot cord.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
9815C	1	100	66

With Convenience Outlet in Base

For 3¼-inch box. Holes for supporting screws, spaced 2¾ inches on centers. With 6 inches of ball chain.



Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
9715A	1	100	70



For Lighting Fixtures

With 3 inches of chain and 4-ft. cord. Brass or nickel finish. Medium base.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
9814	10	100	32

PORCELAIN REMOVABLE RING RECEPTACLES

For Signs, Fixtures and Outlet Boxes

660 Watts—250 Volts



Porcelain Sign Receptacle

Medium base. With 9-inch No. 14 or No. 18 CF wire leads. ½-inch shallow body.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
8101	10	250	51

Porcelain Fixture Receptacle

With two bracket supporting screws.



Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
8870	10	250	44



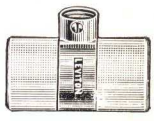
Porcelain Sign Receptacle

With concealed terminals. ⅝-inch body.

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
9840	10	250	61

PORCELAIN KEYLESS TWIN SOCKET

Medium base. 660 watts, 250 volts.



Cat. No.	Cap	Carton	Std. Pkg.	Pkg. Wt.
4005	⅛-inch	10	100	34

Prices furnished upon request.

LEVITON WIRING DEVICES

PORCELAIN KEYLESS SOCKET



660 Watts—250 Volts

With shade holder groove. Medium base.

Cat. No.	Cap	Carton	Std. Pkg.	Pkg. Wt.
10023	⅛-inch	10	250	70

PORCELAIN KEYLESS SOCKET



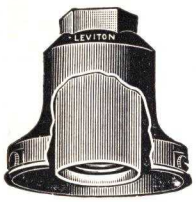
660 Watts—250 Volts

With side outlet. Medium base.

Cat. No.	Cap	Carton	Std. Pkg.	Pkg. Wt.
10054	⅛-inch	10	100	26

WEATHER-PROOF KEYLESS SOCKET

660 Watts—250 Volts



The die cast metal shell is strong, having a threaded cap with large hexagon wrench grip. A heavy glazed porcelain socket with two pointed screws so that it can be easily wired and attached to shell.

Cat. No.	Cap	Carton	Std. Pkg.	Pkg. Wt.
8306	½-inch	10	100	49

Prices furnished upon request.

BAKELITE FLUSH RECEPTACLES

10 Amp., 250 Volts; 15 Amp., 125 Volts

Duplex Flush Receptacle

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
222	Brown	10	200	25
222-I	Ivory	10	200	25

Single Flush Receptacle

224	Brown	10	200	22
224-I	Ivory	10	200	22



222



224



DUPLEX RECEPTACLE

With 3¼-Inch Cover

10 Amp., 250 Volts; 15 Amp., 125 Volts

Cat. No.	Size Cover	Carton	Std. Pkg.	Pkg. Wt
228	3¼-inch	10	100	26
229	4 -inch	10	100	35

SINGLE RECEPTACLE

With 3¼-Inch Cover

10 Amp., 250 Volts; 15 Amp., 125 Volts

Cat. No.	Size Cover	Carton	Std. Pkg.	Pkg. Wt.
324	3¼-inch	10	100	26
424	4 -inch	10	100	34



LEVITON WIRING DEVICES



SURFACE TUMBLER SWITCH WITH BAKELITE COVER

Single Pole

Cat. No.	Amperes 250 V.	Amperes 125 V.	Carton	Std. Pkg.	Pkg. Wt.
1010	5	10	10	100	26

SURFACE TUMBLER SWITCH FOR OUTLET BOX

With Bakelite Cover

Single Pole on 3¼-Inch Cover



Cat. No.	Amperes 250 V.	Amperes 125 V.	Carton	Std. Pkg.	Pkg. Wt.
1011	5	10	10	100	44

TUMBLER AND PUSH BUTTON FLUSH SWITCHES

Single Pole



No. 1000



No. 1002

Tumbler Flush Switches

Cat. No.	Description	Amperes 250 V.	Amperes 125 V.	Carton	Std. Pkg.	Pkg. Wt.
1000	Brown Handle	5	10	10	100	25
1000-1	Ivory Handle	5	10	10	100	25

Push Button Flush Switch

1002	Single Pole	5	10	10	100	25

BAKELITE DUPLEX SWITCHES, RECEPTACLES AND PILOT LIGHTS

Can be installed in a single gang switch box with a standard duplex receptacle plate.



No. 213



No. 212



No. 211

Single Pole Switch and Pilot Light

Single Circuit

Cat. No.	Description	Amperes 125 V.	Amperes 250 V.	Carton	Std. Pkg.	Pkg. Wt.
213	With Bulb	10	....	10	100	22
213LB	Less Bulb	10	....	10	100	22

Two Single Pole Switches

Separate Circuits

212	.....	10	5	10	100	19

Single Pole Switch and Receptacle

Single Circuit

211	Switch	10	5	10	100	18
	Receptacle	15	10			

LEVITON WIRING DEVICES



CORD FEED-THRU SWITCH

Brown Bakelite

Cat. No.	Amperes 250 V.	Amperes 125 V.	Carton	Std. Pkg.	Pkg. Wt.
9410	3	6	10	100	14

PENDANT SWITCH AND CONVENIENCE OUTLET

Brown Bakelite



Cat. No.	Amperes 250 V.	Amperes 125 V.	Carton	Std. Pkg.	Pkg. Wt.
9405	3	6	10	100	12



PUSH-THRU PENDANT SWITCH

Pendant Cap

Cat. No.	Amperes 250 V.	Amperes 125 V.	Carton	Std. Pkg.	Pkg. Wt.
6070	3	6	10	200	10

Prices furnished on request.

NO. 573T 2-CIRCUIT ROTARY CANOPY SWITCH

Metal knob. Three 6-inch leads, colored black, green and red.



3 Amp., 125 Volts—1 Amp., 250 Volts

Cat. No.	Size Shank	Carton	Std. Pkg.	Pkg. Wt.
573T	⅜-inch	25	250	15

NO. 572 ROTARY CANOPY SWITCH



With bakelite knob. 6-inch leads.

6 Amp., 125 Volts—3 Amp., 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
572	⅜-inch Shank	25	250	8
572A	7/16-inch Shank	25	250	8

NO. 10071 ROTARY CANOPY SWITCH

Removable metal knob. 6-inch leads.



3 Amp., 125 Volts—1 Amp., 250 Volts

Cat. No.	Size Shank	Carton	Std. Pkg.	Pkg. Wt.
10071	⅜-inch	25	250	10
10071A	⅝-inch	25	250	11

NO. 574 ROTARY CANOPY SWITCH



Black bakelite. 6-inch leads.

3 Amp., 125 Volts—1 Amp., 250 Volts

Cat. No.	Size Shank	Carton	Std. Pkg.	Pkg. Wt.
574	5/8-inch	50	250	9
574A	½-inch	50	250	9

LEVITON WIRING DEVICES

NO. 575 PUSH CANOPY SWITCH



With 6-inch leads.

3 Amp., 125 Volts—1 Amp., 250 Volts

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.
575	⅜-inch Shank	25	250	10

CANOPY PULL SWITCH

Fitted with 6-inch C.F. wire leads. With ⅜-inch shank.

Switch rating—3 amperes, 125 volts; 1 ampere, 250 volts.



Cat. No.	Carton	Std. Pkg.	Pkg. Wt.
10071P	25	200	12

WIRT DIM-A-LITE



Pull chain socket, brush brass finish, 40 watts, 110 volts. Fitted with cap for ⅛-inch pipe thread.

Produces five degrees of light.

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
33	100	40	$1.80

BENJAMIN SOCKET SPECIALTIES

MOGUL TO MEDIUM REDUCER

660 Watts—250 Volts

Reducer No. 98 is designed for adapting mogul screw base sockets for use with medium screw base lamps. When attached, the center contact is lowered 1/16 inch, thus bringing the filament of the medium base lamp close to its proper position.



Cat. No.	Description	Std. Pkg.	Carton	Shipping Wt. Lbs. Std. Pkg.	List Price Per 100
98	Reducer Only	100	20	18	$51.00

Schedule 3 Discounts Apply.

MEDIUM BASE SOCKET EXTENSION

Listed by Underwriters' Laboratories

660 Watts—250 Volts



No. 91 permits the efficient use of 60, 100 and 150 watt lamps in reflectors designed for the next larger size lamp, by lowering the lamp ⅞ inches. The bead on body also affords a means of attaching glassware to flush receptacles. Finish is bright dip and lacquer.

Cat. No.	Description	Std. Pkg.	Carton	Shipping Wt. Lbs. Std. Pkg.	List Price Per 100
91	Extension Only	50	10	10	$41.00

Schedule 3 Discounts Apply.

BENJAMIN SOCKET SPECIALTIES

MOGUL BASE SOCKET EXTENSION



Listed by Underwriters' Laboratories

1500 Watts—600 Volts

With this device the socket is extended 2½ inches. It allows fixtures designed for 750-1500 watt lamps to be used with 300 and 500 watt lamps with the same character of distribution. Porcelain body.

Cat. No.	Std. Pkg.	Carton	Shpg. Wt. Lbs. Std. Pkg.	List Price Per 100
4396	50	10	45	$151.00

Schedule 3 Discounts Apply.

BENJAMIN ATTACHMENT PLUGS

SWIVEL ATTACHMENT PLUGS

Listed by Underwriters'—660 Watts, 250 Volts

With Short Insulating Ring

This plug easily attaches or unscrews from the lamp socket without kinking or turning the cord. The swivel shell arrangement with the ring, readily turns into the socket with the fingers of one hand but the cord does not twist. Parts clamp the cord ends and make cord knotting unnecessary. Bushing has 13/32 inch opening and takes plain or reinforced cord.



Cat. No.	Description	Std. Pkg.	Carton	Shipping Wt. Lbs. Std. Pkg.	List Price Per 100
903	With 13/32-In. Open	250	50	22½	$49.00

Schedule 3 Discounts Apply.

With Bushing, Set Screw for Reinforced Cord



For the appliance service that requires a heavy reinforced cord, No. 903F should be an important part of the equipment. It has a heavy laminated bushing with a ½ inch cord opening that will take any heavy reinforced cord or flexible armored cable whose outside diameter does not exceed ½ inch. A metal set screw grips cord tightly, protecting both the cord and binding screw connection with plug.

Cat. No.	Description	Std. Pkg.	Carton	Shipping Wt. Lbs. Std. Pkg.	List Price Per 100
903-F	With ½-in. Open.	50	10	5	$93.00

Schedule 3 Discounts Apply.

MECHANICS' SWIVEL ATTACHMENT PLUG

Listed by Underwriters'—660 Watts, 250 Volts

The chuck type bushing of this plug takes a firm grip on any of the standard portable cords 21/64 to 5/16 inch outside diameter. Attachment is made without kinking or turning cord because the swivel shell is the only part that rotates. This plug has large molded ring which can readily be grasped with a gloved hand.



It is adaptable for rough service such as found in railroad shops and yards, industrial plants, etc.

Cat. No.	Description	Std. Pkg.	Carton	Shipping Wt. Lbs. Std. Pkg.	List Price Per 100
916	Chuck Cord Grip	50	10	8¾	$124.00

Schedule 3 Discounts Apply.

SPRING-ACTION PLUG CAPS

SAFETY PLUG CAPS



No. 171

No. 171

3-wire cord clamp rubber attachment plug cap. Polarized; 3 Spring-Action blades. One size plug handles all size wires. Solid riveted clamp for absolute strain relief. Finger grip rubber.

Cat. No.	10 Amps.	15 Amps.	Price Each
171	250 V	125 V	$0.66

Nos. 172–173–173G

2-wire cord clamp attachment plug cap. Standard parallel Spring-Action blades. Takes all wire sizes. Complete strain relief.



No. 172, 173

Cat. No.	Description	Price Each
172	Rubber Plug Cap	$0.39
173	Bakelite Plug Cap	.37
173G	Same as No. 173 with ground hole	.39

RUBBER HANDLE GRIP CAPS



No. 102 No. 108 No. 110 No. 117

Black rubber handles. Hole size .375.

Cat. No.	Description	Price Each
102	Long shank	$0.15
108	Small shank	.15
110	Plain, long shank	.15
117	Medium shank	.15



HEAVY DUTY HANDLE GRIP CAP

Cat. No.	Description	Hole Size	Price Each
101	Brown Bakelite	.312	$0.10
101-I	Ivory Bakelite	.312	.15

PONY GRIP CAP

Cat. No.	Description	Hole Size	Price Each
100	Brown Bakelite	.375	$0.10
100-I	Ivory	.375	.15



No. 100



No. 105



No. 107

FLAT SIDE GRIP CAPS

Fits new, 5-way outlets. Hole size .344.

Cat. No.	Description	Price Each
105	Brown Bakelite with handle grip	$0.15
105-I	Ivory with handle grip	.20
107	Brown Bakelite. No handle grip	.10
107-I	Ivory. No handle grip	.15

SPRING-ACTION PLUG CAPS



No. 115

RUBBER GRIP CAP

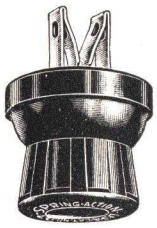
Small black rubber grip cap. Bottom groove allows wire to lay flat. Ideal in limited space.

Cat. No.	Description	Price Each
115	Black rubber	$0.15

RUBBER HANDLE GRIP CAP

Heavy duty rubber handle grip cap for use with heavy machinery, sanding machines, grinders, etc.

Cat. No.	Description	Hole Size	Price Each
127	Black rubber	.540	$0.20



No. 127

TAPMASTER CUBE TAP



No. 109

Three outlets always available. Internal and external Spring-Action blades. Internal contacts impossible to short circuit. Rich low brass inside and outside contacts.

Cat. No.	Description	Price Each
109	Brown Bakelite	$0.15
109-I	Ivory	.20

SAFEWAY RUBBER CORD CONNECTORS

Daniel Woodhead Company Products

2-WIRE BODY AND CAP

15 Amp., 125 Volts; 10 Amp., 250 Volts



No. 1500



No. 1504

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.	Price Each
1500	Parallel Body only	10	100	13	$0.80
1504	Parallel Body and Cap	5	50	13	1.30
1501	Polarity Body only	10	100	13	.90
1505	Polarity Body and Cap	5	50	13	1.50

With Cord Grip



No. 1502



No. 1506

1502	Parallel Body and Grip	10	100	18	$1.10
1506	Parallel Body, Cap and Grip	5	50	18	1.90
1503	Polarity Body and Grip	10	100	18	1.20
1507	Polarity Body, Cap and Grip	5	50	18	2.10
1508	3-Wire Body and Grip	10	100	18	1.30
1509	3-Wire Body, Cap and Grip	5	50	18	2.30

SAFEWAY RUBBER COVERED PLUGS

Daniel Woodhead Company Products

Approved by Underwriters

Safeway Rubber Covered Plugs are built for heavy duty industrial and railroad service. The brass blades, which are mounted on approved insulating material, can be removed from the rubber body. These plugs are practically non-breakable as well as being safe to handle.

2-WIRE CAPS

15 Amp., 125 Volts; 10 Amp., 250 Volts



No. 1400



No. 1401



No. 1402

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.	Price Each
1400	2-Wire Cap	10	100	13	$0.50
1401	2-Wire Tandem	10	100	13	.60
1402	2-Wire Polarity	10	100	13	.60

2-WIRE CAPS WITH CORD GRIP

15 Amp., 125 Volts; 10 Amp., 250 Volts



No. 1404



No. 1405



No. 1406

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.	Price Each
1404	2-Wire Cap Cord Grip	10	100	18	$0.80
1405	2-Wire Tandem Cord Grip	10	100	18	.90
1406	2-Wire Polarity Cord Grip	10	100	18	.90

3-WIRE CAPS—GROUNDED

15 Amp., 125 Volts; 10 Amp., 250 Volts



No. 1403



No. 1407

3-Wire Grounded

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.	Price Each
1403	10	100	13	$0.70

3-Wire Grounded Cord Grip

1407	10	100	19	1.00

2-WIRE SEPARABLE SWIVEL TYPE

15 Amp., 125 Volts
10 Amp., 250 Volts

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.	Price Each
1408	10	100	25	$1.60



All above caps, except those with cord grip, have $\frac{7}{16}$-inch cord hole. Can be had with cord holes ¼ to $\frac{5}{8}$-inch on specifications. Caps with cord grip have ¾-inch cord hole.

Assortment of any Safeway Cap or Cord Connector in carton lots permitted to make standard package.

PRoTEX RUBBER COVERED PLUGS

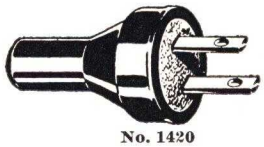
Daniel Woodhead Company Products

JUNIOR AND MIDGET TYPES

15 Amp., 125 Volts; 10 Amp., 250 Volts



No. 1422



No. 1420

Cat. No.	Cord Hole	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
1420	5/16	10	100	8	**$0.20**
1421	7/16	10	100	8	**.20**
1422	1/4	10	100	4	**.20**

SAFEWAY (Inner-Lock) RUBBER DUPLEX RECEPTACLES

Daniel Woodhead Company Products

10 Amp., 250 Volt—15 Amp., 125 Volt



No. 800

Designed for use where a positive grip is necessary. The contacts will withstand a direct pull up to 15 pounds before releasing the engaged plug blades. These receptacles will withstand considerable abuse without showing signs of wear or weakness. Available in two styles. Parallel and 2-wire polarized.

Cat. No.	Type	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
800	Parallel	5	25	8	**$1.10**
801	2 Wire Polarized	5	25	8	**1.20**

OUTLET BOX RECEPTACLES WITH COVERS

Cat. No.	Size	Receptacles	Carton	Std. Pkg.	Pkg. Wt.	Price Each
802	3 1/4	Parallel	5	25	13	**$1.20**
803	3 1/4	2 Wire Polarized	5	25	13	**1.30**
804	4	Parallel	5	25	16	**1.20**
805	4	2 Wire Polarized	5	25	16	**1.30**

PRoTEX RUBBER-COVERED SOCKETS

Daniel Woodhead Company Products

660 Watts, 250 Volts

PUSH AND KEYLESS TYPES



No. 700



No. 705



No. 710



No. 717

Description	PUSH TYPE Cat. No.	Pkg. Wt.	Price Each	KEYLESS TYPE Cat. No.	Pkg. Wt.	Price Each
Pendant with 7/16" Cord Hole	**700**	27	**$1.50**	**710**	22	**$1.00**
With 1/8-inch Cap	**701**	29	**1.70**	**711**	23	**1.20**
With 1/4-inch Cap	**702**	29	**1.70**	**712**	23	**1.20**
With 3/8-inch Cap	**703**	31	**1.80**	**713**	25	**1.30**
With 1/2-inch Cap	**704**	32	**1.80**	**714**	26	**1.30**
Pendant with 1/8" to 1/2" Cord Grip	**705**	38	**2.10**	**717**	33	**1.40**

Carton, 10; standard package, 100.

WATERTITE WEATHERPROOF SOCKETS

Daniel Woodhead Company Products

660 Watts, 600 Volts



No. 600



No. 601

Waterproof and non-breakable. May be used under water indefinitely without injury or short-circuit in socket or lamp. Meets all requirements for outside use. Fits standard sign receptacle cover.

Standard weatherproof shade holder or lamp guard will fit Watertite socket.

Cat. No.	Diam. Cover	Screw Spacing	Carton	Std. Pkg.	Pkg. Wt.	Price Each
600	.....	.....	10	100	20	**$0.45**
	With Outlet Box Cover					
601	3 1/2	2 3/4	10	100	54	**.65**
602	4 1/8	3 1/2	10	100	55	**.65**

Leads consist of all rubber No. 14 stranded wire, 6 inches long. For leads longer than 6 inches add to above list prices for each additional lineal foot desired, **$0.05.**

WATERTITE RUBBER LAMP RECEPTACLES

Daniel Woodhead Company Products

For temporary lighting where conduit is not used. Standard Edison base socket that gives watertight seal due to rubber construction. Wired both side and back. Screw spacing on 2 inch centers.



No. 604

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
603	Side Wired	10	100	31	**$0.80**
604	Back Wired	10	100	31	**.80**

SAFEWAY WEATHERPROOF RUBBER PLUG

Daniel Woodhead Company Products

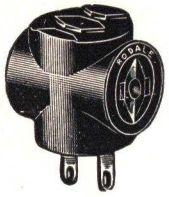


Plug body is made of a high quality oil and heat-resisting rubber compound, molded into a nickel-plated screw base with No. 14 stranded, all-rubber leads, so vulcanized as to form a one-piece, waterproof and non-breakable attachment plug, with 6-inch leads.

For leads longer than 6 inches add to the list price for each additional lineal foot, **$0.05.**

Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
1409	10	100	15	**$0.70**

RODALE WIRING DEVICES



BAKELITE TRIO-TAP

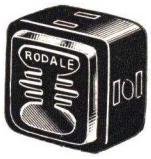
15 Amp., 125 Volts
10 Amp., 250 Volts

Carton, 25; standard package, 250. Weight, 20 lbs. Underwriters' Listed.

	Each
Price, No. **582** Brown	**$0.12**
Price, No. **582V** Ivory	**.16**

BAKELITE SERVICE BLOCK

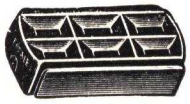
With Three Outlets
15 Amp., 125 Volts
10 Amp., 250 Volts



Carton, 25; standard package, 250. Weight, 21 lbs. Underwriters' Listed.

Price, No. **581** Brown....each **$0.12**
Price, No. **581V** Ivory....each **.16**

BAKELITE TRIPLE TAPS



Complete with wood screw. Carton, 10; standard package, 250. Weight, 35 lbs.

	Each
Price, No. **603** Brown	**$0.16**
Price, No. **603V** Ivory	**.22**

TRIPLE SURFACE CONVENIENCE OUTLETS



With screw terminals. Carton, 25; standard package, 500. Weight, 41 lbs.

Price, No. **T-93** Brown .....each **$0.18**
Price, No. **T-93V** Ivory .....each **.23**

DOUBLE SURFACE OUTLETS

Carton, 20; standard package, 200. Weight, 12 lbs.

Price, No. **T-90** Brown.....each **$0.15**
Price, No. **T-90V** Ivory.....each **.18**

SINGLE SURFACE CONVENIENCE OUTLETS



Complete with wood screw. Carton, 20; standard package, 200. Weight, 10 lbs.

Price, No. **66** Brown..each **$0.10**
Price, No. **66V** Ivory..each **.12**

STANDARD RUBBER HANDLE CAPS

15 Amp., 125 Volts
10 Amp., 250 Volts



Cord hole, $\frac{5}{16}$-inch diameter. Carton, 25; standard package, 500. Weight, 35 lbs. Underwriters' Listed.

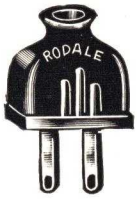
Price, No. **502**.....each **$0.10**

SMALL RUBBER HANDLE CAPS

Cord hole, $\frac{5}{16}$ inch diameter. With steel blades. Carton, 250; standard package, 1000. Weight, 62 lbs.

Price, No. **394**.....each **$0.05**

RODALE WIRING DEVICES



FLAT RUBBER GRIP CAPS

15 Amp., 125 Volts
10 Amp., 250 Volts

Cord hole, $\frac{5}{16}$ inch diameter. Carton, 25; standard package, 500. Weight, 27 lbs. Underwriters' Listed.

Price, No. **506**.....each **$0.10**

BAKELITE ATTACHMENT PLUG CAPS



Cord hole, $\frac{5}{16}$ inch diameter. Carton, 50; standard package, 1000. Weight, 38 lbs.

Cat. No.	Description	Price Each
501	Brown, w/ brass blades	**$0.06**
501V	Ivory, w/ brass blades	**.08**
		Per 100
16	Brown, w/ steel blades	**3.70**



BAKELITE FEED THRU SWITCH

6 Amp., 110 Volt

Carton, 10; standard package, 100. Weight, 7 lbs.

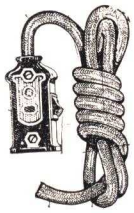
Price, No. **720**.....each **$0.26**

BAKELITE KITCHEN PENDANT SWITCH



With outlet on bottom. Switch operates light. Outlet is always on. Carton, 10; standard package, 100. Weight, 12 lbs.

Price, No. **750**.....each **$0.30**

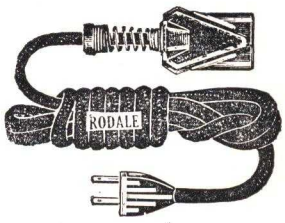


WIRED KITCHEN PENDANT SWITCH

No. 750 switch wired with 4 feet of 3-conductor cord. Carton, 1; standard package, 100. Weight, 24 lbs.

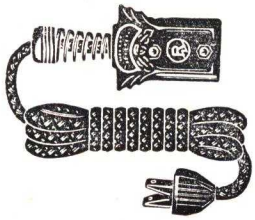
Price, No. **775**.....each **$0.70**

CUTLER HAMMER PLUG CORD SET



Wired with 7 feet No. 18 3M cycle cord. Flat rubber cap. Standard package, 100. Weight, 37 lbs.

Price, No. **715** each **$0.70**



BAKELITE CORD SET

Wired with 6 weet unapproved cord. Flat rubber cap. Standard package, 100. Weight, 31 lbs.

Price, No. **645** each **$0.46**

RODALE WIRING DEVICES



BAKELITE SWITCH PLUG

6 Amp., 125 Volts
3 Amp., 250 Volts

Carton, 10; standard package, 100. Weight, 16 lbs.

Price, No. **800**.....each **$0.36**

CUTLER HAMMER IRON PLUG

10 Amp., 125 Volts
5 Amp., 250 Volts

Carton, 10; standard package, 100. Weight, 14 lbs. Underwriters' Listed.

Price, No. **700**.....each **$0.16**





BAKELITE IRON PLUG

10 Amp., 125 Volts
5 Amp., 250 Volts

Carton, 10; standard package, 100. Weight, 9 lbs. Underwriters' Listed.

Price, No. **707**.....each **$0.12**

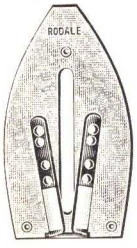
BAKELITE 3-LB. MIDGET PLUG

Carton, 10; standard package, 100. Weight, 9 lbs. Underwriters' Listed.

Price, No. **450**.....each **$0.10**



RODALE HEATING ELEMENTS



FITSALL IRON ELEMENTS

Fits most non-automatic irons. Plate mica. Carton, 20; standard package, 100. Weight, 6 lbs.

Cat. No.	Volts	Watts	Price Each
E76	110	600	**$0.50**
E76S	220	600	**.80**

CONE HEATER ELEMENTS

Edison base. One to box. Carton, 25; standard package, 100. Weight, 24 lbs.

Cat. No.	Volts	Watts	Price Each
E77	110	600	**$0.50**
E77S	110	1000	**.80**
E77X	220	600	**.90**



RODALE HEATING ELEMENTS



STRAIGHT HEATER ELEMENT

Edison base. 25 to carton; standard package, 100. Weight, 27 lbs.

Price, No. **E74**, 110 Volts, 600 Watts....each **$0.56**

HORIZONTAL HEATER ELEMENT

With adjustable terminal straps. Carton, 25; standard package, 100. Weight, 9 lbs. 110 volts, 600 watts.

Price, No. **E75**.....**$0.60**





MASTER CONE ELEMENT

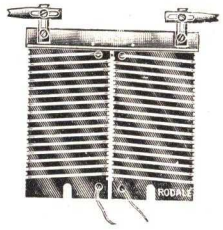
Edison base — extra large. 4½ inches long. Carton, 1; standard package, 25. Weight, 27 lbs. 110 volts, 1000 watts.

Price, No. **E70**.....each **$1.10**

TOASTER ELEMENT

For household toaster; adjustable. Carton, 10; standard package, 100. Weight, 10 lbs. 110 volts, 400 watts.

Price, No. **E45**....each **$0.90**





PERCOLATOR ELEMENT

For Universal type percolator. Carton, 10; standard package, 100. Weight, 2 lbs. 110 volts, 350 watts.

Price, No. **E90**.....each **$0.80**

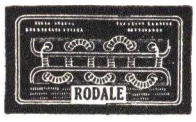
RESISTANCE WIRE ELEMENTS

110 Volts—600 Watts

For general repairs of small appliances. Carton, 20; standard package, 200. Weight, 6 lbs.

Cat. No.	Diam. In.	Price Each
182-2	5/32	**$0.12**
182-3	7/32	**.18**

Packed one element on card.



RODALE COILED RESISTANCE WIRES



For repair work. Full instructions on spool. Standard package, 10 spools; average weight, 5 lbs. 10 feet of coiled wire on spool.

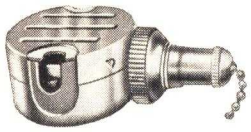
Cat. No.	Diameter Inches	Price Per Spool
E78-1	9/64	**$2.10**
E78-2	5/32	**2.10**
E78-3	7/32	**3.40**
E78-4	¼	**5.00**
E78-5	¼ Nick. V.	**7.00**

McGILL LEVOLIER SWITCHES

Approved by Underwriters' Laboratories, Inc.

LEVER OPERATED—SINGLE CIRCUIT

6 Amp. "T," 125 Volt—3 Amp., 250 Volt



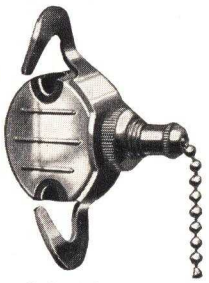
Only 5/8 inch thick the No. 41 is one of the smallest 6 amp. 250 volt pull switches made, yet has unusual capacity, dependability and long life. Single pole, double break mechanism, equipped with 6 ft. cord or plain lever control. Standard finishes: brass, dark bronze, and burnished nickel.

Widely adaptable for canopy or conduit box mounting for individual control of incandescent or fluorescent lighting, F.H.P. motors, etc.

Cat. No.	Stem, In. Diam.	Stem, In. Length	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
41	7/16	3/16	10	100	10	**$100.00**

LEVER OPERATED—SINGLE CIRCUIT

6 Amp. "T," 125 Volt—3 Amp., 250 Volt



Can be used on any chain fixture, old or new, and between any two links of chain. When installed in fixtures that have been previously hung it fits in place of one of the chain links without altering the length of the fixture or necessitating rewiring or splicing of lead wires.

The Levolier link switch consists of a standard Levolier pull switch, and Levolier link.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
39	No. 41 with Mounting Link	10	100	13	**$100.00**

LEVER OPERATED—TWO CIRCUIT

3 Amp., 125 Volt—1 Amp., 250 Volt



Designed to operate with three-light lamps. When installed in the canopy of a fixture using the three-light lamp, it operates as follows: First pull turns on smaller filament, second pull turns off small filament and turns on the larger filament, third pull turns both filaments on and fourth turns both off. Standard finishes, brass, dark bronze and burnished nickel. Size 7/8 x 1 3/8 inches.

Cat. No.	Stem, In. Diam.	Stem, In. Length	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
201	7/16	3/16	10	100	11	**$100.00**

PULL CHAIN—SINGLE CIRCUIT

3 Amp. "T," 125 Volt—1 Amp., 250 Volt



Especially durable, yet inexpensive 3 Amp., 250 Volt switch with single pole, double break mechanism, enclosed in plastic case. 6 in. wire leads secured to terminals by pressure connections — no soldered terminals. Equipped with 6 ft. cord and bell. Size 1 x 1 1/4 inches.

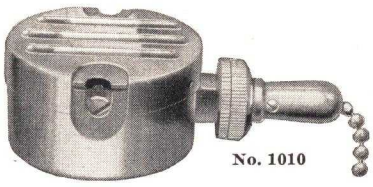
Cat. No.	Stem, Inches Diam.	Stem, Inches Length	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
21	13/32	5/16	10	100	7	**$62.50**

McGILL LEVOLIER SWITCHES

Approved by Underwriters' Laboratories, Inc.

LEVER OPERATED—SINGLE CIRCUIT

10 Amp. "T," 125 Volt—5 Amp., 250 Volt



No. 1010

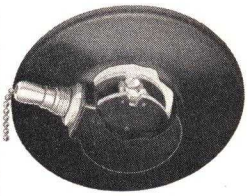
Smallest 10 Amp. pull switch made yet the No. 1010 has the ability to withstand the same loads as switches much larger in size. Single pole double break mechanism with 6 ft. cord and bell.

For individual control of high wattage lamps and fluorescent banks up to six 4-tube fixtures. Standard finishes, brass, dark bronze and burnished nickle.

Cat. No.	Stem, In. Diam.	Stem, In. Length	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
1010	1/2	3/8	10	100	20	**$170.00**
1039	With Mounting Link		10	100	26	**170.00**

SWITCH HOUSING PLASTIC OUTLET BOX COVER

With No. 1010 Switch



No. 109

No. 109 outlet box cover provides a cover and switch assembly for ceiling or wall mounted outlet boxes. Provides an inconspicuous, well-designed housing to replace large, unsightly switches. Ideal to provide power-saving individual control of banks of lights up to 1250 watts. Housing is molded brown phenolic plastic with recess to accommodate No. 1010 Levolier switch. Molded with partial holes which can be punched out to fit 3- or 4-inch outlet boxes.

No. 109-X is the same as above but without switch. May be used with other Levolier switches including Nos. 42, 202, 302 and 1020S.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
109	With No. 1010 Switch	20	5 1/2	**$2.30**
109-X	Same, without Switch	20	1	**.40**

LEVOLIER FIXTURE SOCKETS

Approved by Underwriters' Laboratories, Inc.

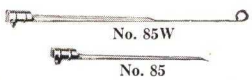
660 Watts, 250 Volts



For brackets and chandeliers using candles, husks, and other types of socket covers. The porcelain lever serves as a finishing knob and does away with unsightly black keys, slots in husks, or chains coming out of the side.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
121	5/8" Nipple, Porcelain Lever	10	100	15	**105.00**
128	Porcelain Knob, White	10	100	....	**10.00**

LEVOLIER EXTENSION ARMS



Constant pulling of lamp cords that rub against reflectors, shades, and bowls, causes needless wear, expense, fixture swaying and risk. The arm slips over the Levolier switch lever, cord is inserted through end hole and knotted to hold. No. 85-W can be extended for use with 18–22-in. and larger basin fixtures. Standard or special finished to match all Levolier switches.

Cat. No.	Overall Length Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
85	5¼	10	100	3	**$23.00**
85-W	9	10	100	4	**28.00**

McGILL LAMP GUARDS

PROTECTOR "O" LAMP GUARDS

Protector "O" Lamp Guards give full protection to lamp bulbs—the removable trap at bottom prevents pilfering. Yet trap can be attached and removed quickly and easily for lamp replacement and cleaning. Simply press inward on the guard rim where the trap hooks on it and snap the trap on or off.


No. 1429

Guards are built of heavily tinned steel wire, and are furnished with plain steel screws for attaching to sockets.

Cat. No.	Lamp Size	Description	Wt. Oz. Per Doz.	Price Each
1429	60-w	for Brass Socket	54	**$1.00**
1432	60-w	for 1½-in. dia. Socket	50	**1.00**
1433	100-w	for 1½-in. dia. Socket	56	**1.10**
2932	Trap only to Close Bottom.....		----	**.25**

McGILL WALL AND RECEPTACLE GUARDS



Durable stationary socket guards with slotted holes in base rings for easy mounting in wall, ceiling and all sizes of outlet boxes.

Steel wire ribs and stamped metal rings and plates electrically welded and heavily tinned.

Cat. No.	Lamp Size	Size, Inches Dia.	Depth	Box	Wt. Oz. Each	Price Each
1436	60-w	2 13/16	5¾	3	8½	**$1.60**
1438	100-w	3⅛	6½	4	9¼	**1.70**
1439	100-w	3⅛	6⅜	3–4	10½	**1.80**
1439B*	100-w	3⅛	6⅜	3–4	12¼	**1.80**
		With Trap and Loxon Attachment				
1440	100-w	3⅛	6⅜	3–4	12½	**2.50**
1440B*	100-w	3⅛	6⅜	3–4	14	**2.50**

*Fits 4-inch square outlet box also.

McGILL LAMP GUARDS

LOXON LOCKING LAMP GUARDS


No. 1426

Prevent theft and breakage of lamps—lock them on with McGill LoXon Guards. Easily attached and locked with key. Made of steel wire, heavily tinned, available in sizes to fit all sockets and for regular and mill type lamps. Key fits two triangular head screws protected by collars just large enough to admit key only. Guard bottoms are closed, making use of key necessary for removal.

Used in garages, factories, yards, shops, basements, closets, securing double protection against breakage and unauthorized removal.

Cat. No.	Lamp Size	Description	Wt. Lbs. Per Doz.	Price Each
1420	60W	for Brass Socket	2½	**$0.80**
1420-A	60W	for W.P. Socket "A"	2¾	**.80**
1420-B	60W	for W.P. Socket "B"	3¼	**.80**
1426	100W	for Brass Socket	3	**.85**
1428-A	100W	for W.P. Socket "A"	3	**.85**
1428-B	100W	for W.P. Socket "B"	3½	**.85**
2444	200W	for Brass Socket	4	**1.00**
2446-A	200W	for W.P. Socket "A"	4¼	**1.00**
2446-B	200W	for W.P. Socket "B"	4¾	**1.00**
		With Reflectors		
1400	60W	for Brass Socket	3½	**1.05**
1401-A	60W	for W.P. Socket "A"	3¾	**1.05**
1443	75W	for Brass Socket	4½	**1.10**
1444-A	75W	for W.P. Socket "A"	4½	**1.10**

Three keys furnished with each dozen guards. Extra keys are **$0.10** each or **$0.80** per dozen.

GRIPON NON-LOCKING LAMP GUARDS

These guards are the same in construction as LoXon guards, except that the key locking device is replaced with plain steel screws. Full protection against breakage. Easily detached for lamp renewal. Gripon guards are built of heavily tinned steel wire, made to withstand hard use and abuse. For both regular and mill type lamps, brass shell and W.P. sockets.


No. 1608

Cat. No.	Lamp Size	Description	Wt. Lbs. Per Doz.	Price Each
1608	60W	for Brass Socket	2½	**$0.75**
1608-A	60W	for W.P. Socket "A"	2¾	**.75**
1608-B	60W	for W.P. Socket "B"	3¼	**.75**
1601	100W	for Brass Socket	3	**.80**
1603-A	100W	for W.P. Socket "A"	3	**.80**
1603-B	100W	for W.P. Socket "B"	3½	**.80**
1605	200W	for Brass Socket	4	**.95**
1606-A	200W	for W.P. Socket "A"	4¼	**.95**
1606-B	200W	for W.P. Socket "B"	4¾	**.95**
		With Reflectors		
1610	60W	for Brass Socket	3½	**1.00**
1611-A	60W	for W.P. Socket "A"	3¾	**1.00**
1620	75W	for Brass Socket	4½	**1.05**
1621-A	75W	for W.P. Socket "A"	4½	**1.05**

All LoXon and Gripon Guard Numbers followed by "A" fit Weather Proof Sockets with bottom bead measuring 1 5/16" to 1 13/16" in extreme diameter; Numbers followed by "B" fit 1¾" extreme diameter.

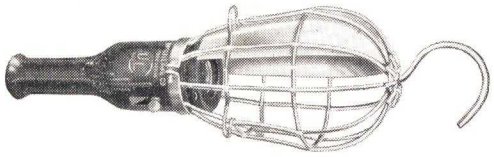
All Protector "O," LoXon, Gripon, and Wall and Receptacle Guards may be assorted to make up quantity.

McGILL PORTABLE LAMP GUARDS

Approved by Underwriters' Laboratories, Inc.

No. 7000 SERIES PORTABLE LAMP GUARDS

Rubber Handle—Closed End Cage

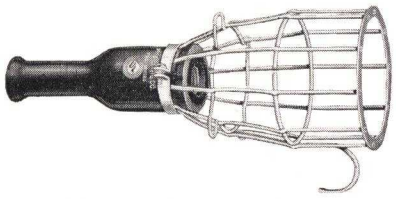


Black rubber handle equipped with 660 watt, 250 volt socket. Electrically welded steel wire cage with No-Rol feature, heavily zinc plated. Exceptionally sturdy and serviceable for general portable lighting applications.

Cat. No.	Description	Wt. Oz. Each	Price Each
7000	Lamp size max. 100-w, RS, Keyless Socket	20	**$3.20**
7000R	No. 7000 with Reflector	21	**3.40**
7000S	No. 7000 with Levolier Switch	20	**3.50**
7000SR	No. 7000 with Reflector and Levolier Switch	22	**3.70**
7060	Lamp size max. 60-w, Keyless Socket	17	**3.10**
7060R	No. 7060 with Reflector	18	**3.30**
7060S	No. 7060 with Levolier Switch	17	**3.40**
7060SR	No. 7060 with Reflector and Levolier Switch	18	**3.60**
7000M	Lamp size 50-w, RS, Keyless Socket	19	**3.10**
7000MR	No. 7000-M with Reflector	20	**3.30**
7000MS	No. 7000-M with Levolier Switch	19	**3.40**
7000MSR	No. 7000-M with Reflector and Levolier Switch	20	**3.60**

No. 7001 SERIES PORTABLE LAMP GUARDS

Rubber Handle—Open End Cage



Similar to 7000 series portable lamp guard except that cage has open end for easier removal of lamp.

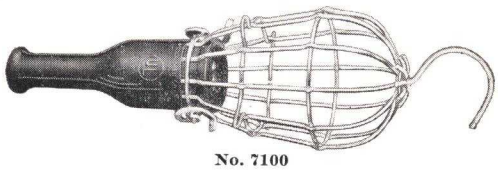
Cat. No.	Description	Wt. Oz. Each	Price Each
7001	Lamp size max. 100-w, RS, Keyless Socket	22	**$3.60**
7001R	No. 7001 with Reflector	24	**3.80**
7001S	No. 7001 with Levolier Switch	22	**3.90**
7001SR	No. 7001 with Reflector and Levolier Switch	24	**4.10**
7001M	Lamp size max. 50-w, RS, Keyless Socket	19	**3.50**
7001MR	No. 7001-M with Reflector	20	**3.70**
7001MS	No. 7001-M with Levolier Switch	19	**3.80**
7001MSR	No. 7001-M with Reflector and Levolier Switch	20	**4.00**
7002	Lamp size 200-w, Grounded Socket	24	**4.60**
7002R	No. 7002 with Reflector	25	**5.50**

McGILL PORTABLE LAMP GUARDS

Approved by Underwriters' Laboratories, Inc.

No. 7100 SERIES PORTABLE LAMP GUARDS

Rubber Handle—Closed End Cage



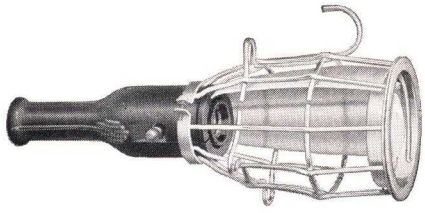
No. 7100

The No. 7100 series of guards is essentially the same as No. 7000 series, except that a wire collar is used instead of the flat steel collar. The cage is held to the handle by a clamp arrangement instead of screws—makes lamp changing easier and faster and requires no tools.

Cat. No.	Description	Wt. Oz. Each	Price Each
7100	Lamp size max. 100-w, RS, Keyless Socket	22	**$3.20**
7100R	No. 7100 with Reflector	23	**3.40**
7100S	No. 7100 with Levolier Switch	22	**3.50**
7100SR	No. 7100 with Reflector and Levolier Switch	23	**3.70**
7100M	Lamp size max. 50-w, RS, Keyless Socket	19	**3.10**
7100MR	No. 7100-M with Reflector	20	**3.30**
7100MS	No. 7100-M with Levolier Switch	19	**3.40**
7100MSR	No. 7100-M with Reflector and Levolier Switch	20	**3.60**

No. 7100LR SERIES PORTABLE LAMP GUARDS

Rubber Handle—Concentrating Lens and Reflector Assembly



These portable lamp guards have the 7000 series handle and socket. No-Rol steel wire cages are equipped with concentrating end lens and reflector assembly that amplifies light up to 6½ times at two feet. Ideal wherever intensified lighting is needed.

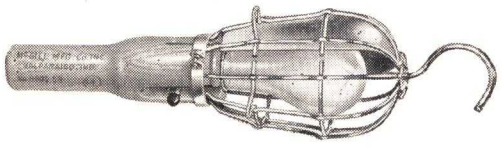
Cat. No.	Description	Wt. Oz. Each	Price Each
7001LR	Lamp size max. 100-w, Keyless Socket	24	**$5.10**
7001SLR	No. 7001LR with Levolier Switch	24	**5.40**

McGILL PORTABLE LAMP GUARDS

Approved by Underwriters' Laboratories, Inc.

No. 8000 SERIES PORTABLE LAMP GUARDS

Hard Wood Handle—Closed End Cage

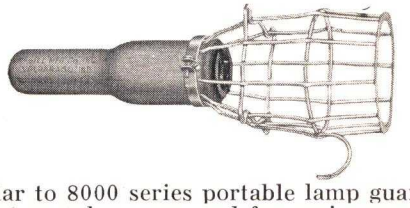


The 8000 series portable lamp guards are built with polished wood handles and 660 watt, 250 volt sockets. Electrically welded No-Rol steel wire cages, heavily zinc plated. More generally serviceable around oil and grease.

Cat. No.	Description	Wt. Oz. Each	Price Each
8000	Lamp size max. 100-w, RS, Keyless Socket	19	**$3.10**
8000R	No. 8000 with Reflector	20	**3.30**
8000S	No. 8000 with Levolier Switch	19	**3.40**
8000SR	No. 8000 with Reflector and Levolier Switch	20	**3.60**
8060	Lamp size max. 60-w, Keyless Socket	17	**3.00**
8060R	No. 8060 with Reflector	18	**3.20**
8060S	No. 8060 with Levolier Switch	17	**3.30**
8060SR	No. 8060 with Reflector and Levolier Switch	18	**3.50**
8000M	Lamp size max. 50-w, RS, Keyless Socket	17	**3.00**
8000MR	No. 8000M with Reflector	18	**3.20**
8000MS	No. 8000M with Levolier Switch	17	**3.30**
8000MSR	No. 8000M with Reflector and Levolier Switch	18	**3.50**

No. 8001 SERIES PORTABLE LAMP GUARDS

Hard Wood Handle—Open End Cage



Similar to 8000 series portable lamp guards, except that cage has open end for easier removal of lamp.

Cat. No.	Description	Wt. Oz. Each	Price Each
8001	Lamp size max. 100-w, RS, Keyless Socket	22	**$3.50**
8001R	No. 8001 with Reflector	22	**3.70**
8001S	No. 8001 with Levolier Switch	22	**3.80**
8001SR	No. 8001 with Reflector and Levolier Switch	22	**4.00**
8001M	Lamp size max. 50-w, RS, Keyless Socket	19	**3.40**
8001MR	No. 8001M with Reflector	20	**3.60**
8001MS	No. 8001M with Levolier Switch	19	**3.70**
8001MSR	No. 8001M with Reflector and Levolier Switch	20	**3.90**
8002	Lamp size max. 200-w, Grounded Socket	22	**4.50**
8002R	No. 8002 with Reflector	23	**5.40**

McGILL SOCKETS

With or Without Levolier Switch Mechanism



No. 4003 **No. 4004** **No. 4005** **No. 4016**

High quality 660-watt, 250-volt McGill sockets are available in Keyless and Levolier switch types. Levolier mechanism sockets have fibre levers and brass cases, thoroughly insulated.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
4003	660-w, Black Composition, Keyless	25	100	25	**$70.00**
4004	660-w, Brass Case, Fiber Lever	25	100	17	**100.00**
4005	600-w, Brass Case, Fiber Lever	25	100	17	**100.00**
4015	660-w, Black Composition, Grounded	25	100	25	**90.00**
4016	660-w, Rubber Watertight, Keyless	25	100	25	**90.00**

McGILL ADAPTABLE LAMP CHANGERS

INSULATED FOR SAFETY



The McGill Adaptable Lamp Changer insures more convenient replacement of light bulbs in any location. A coil spring around the ends of the rubber covered fingers grips the bulb firmly for removal.

The angle adjustment on the No. 150-CA and No. 151-CA, permits tilting of the head for bulbs in horizontal position.

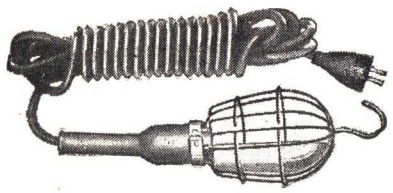
Steel Lamp Changer poles are furnished in 5½-foot sections that are interchangeable. Opposite ends telescope and lock to complete desired multiple length.

Each section is insulated for positive protection against shock should Lamp Changer come in contact with live wires. Practical, saves time and prevents injuries.

Cat. No.	Description	Lamp Size	Wt. Oz. Each
	With Angle Adjustment		
150-CA	Coil Spring	15- 60-w	8
151-CA	Coil Spring	100- 200-w	9
	No Angle Adjustment		
152-C	Coil Spring	300- 500-w	10
153-C	Coil Spring	750-1500-w	10
154-C	Coil Spring	400-w Mercury Lamp	8
156-C	Coil Spring	PAR-38, R-40	12
160-P	Steel Interchangeable Poles, 5½-ft. sections		24

C & E SAFETY PORTABLE EXTENSION CORD SETS

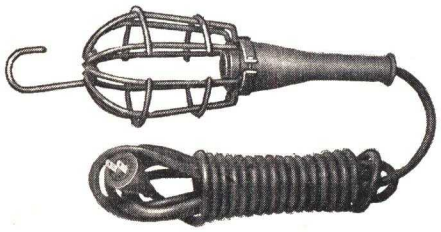
NO. 6030-R SAFETY EXTENSION



Consists of 25 feet of Underwriters' approved heavy duty rubber covered cord, No. 603-R portable lamp guard and No. 15-P safety plug.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
6030-R	Without Switch	6	12	36	$5.60
6030-RS	With Switch	6	12	36	6.05

NO. 7400 BOILER EXTENSION



Consists of No. 7 safety rubber handle, No. 4-R rubber weatherproof socket, No. 110 100-watt rubber covered lamp guard, No. 15-P rubber safety plug assembled with 50 feet of No. 16 Underwriters' approved heavy duty rubber covered cable.

Packed 3 in a carton. Standard package, 6; weight, 36 pounds.

Price, No. **7400** Boiler Extension.....each **$13.80**

For lengths other than above, add or subtract **$0.16** per foot extra.

C & E STANDARD PORTABLE GUARDS



For cord up to ½-inch diameter. Complete units include handle, socket and guard. Packed 12 in a carton. Standard package, 24; weight, 18 pounds.

Cat. No.	Description	Price Each
603-R	With No. 103-R Reflector Guard, 75 watt	$2.00
603	With No. 103 Open Guard, 75 watt	1.90
603-RS	With No. 103-R Reflector Guard and Switch, 75 watt	2.30
603-S	With No. 103 Open Guard and Switch, 75 watt	2.15
617	With No. 117 Open End Guard, 60 watt	2.20
617-S	With No. 117 Open End Guard and Switch, 60 watt	2.55

C & E BARREL VAPORPROOF PORTABLE EXTENSIONS

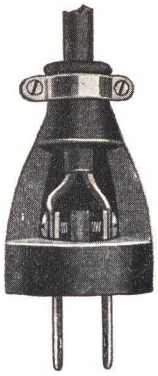


Rolled bakelite handle, overall 36 inches; fits 1¾-inch opening; pyrex globe for T-6½ bulb.

No. 71 Without Bulb .....each **$19.90**
No. 71-I With Rubber Insulated Guard each **23.15**

C & E ALL-RUBBER SAFETY PLUGS

15 Amp., 125 Volts—10 Amp., 250 Volts



Will not break. Blades are held firmly and permanently in alignment. No rivets to loosen or fibre to warp. Connections on the inside where they are protected. Cord grip feature keeps tension off terminals. Flexible shank takes wear off cord. Easy to connect. Packed 10 in a carton.

No. 15-P—Parallel blades; cords up to $\frac{9}{16}$-inch. Packed 100 in standard package; weight, 14 pounds.

No. **15-P** Ring .....each **$0.30**
No. **15PC** Clamp .....each **.40**

No. 15-T—Tandem blades; cords up to $\frac{9}{16}$-inch. Packed 100 in a standard package; weight 14 pounds.

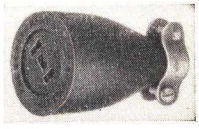
No. **15T** ....each **$0.40** No. **15-TC** ....each **$0.50**

No. 17—Three-wire polarized. Cords up to $\frac{9}{16}$-inch. Has three blades, 1 of which is for ground connection, and is longer than the other two, making contact first when inserted, and breaks contact last when withdrawing. Packed 100 in a standard package; weight, 18 pounds.

No. **17** All Rubber Safety Plug.....each **$0.50**

No. 19-PC CORD CONNECTOR BODY

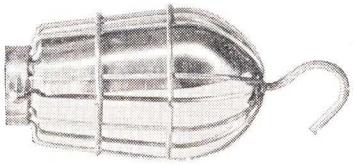
10 Amp., 250 Volt—15 Amp., 125 Volt



The No. 19-PC heavy duty, all rubber, unbreakable cord connector has been developed to be used with the No. 15-P and No. 15-PC attachment plug. The rubber jacket has a flexible shank which takes the wear off the cord. The cord grip clamp removes all tensions from the connections and allows one to yank the cord connector body loose, without any danger of shorts and breakages. This makes usual repairs unnecessary. The inner construction of the connector body insures tight contact at all times.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
19-P	With Ring	10	100	12	$0.58
19-PC	With Clamp	10	100	13	.68

C & E LAMP GUARDS



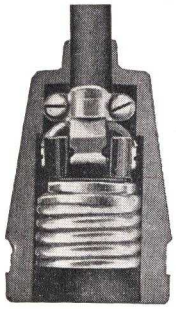
No. 104-R

Wire and rubber insulated open and reflector type lamp guards. Packed 6 in a carton; 12 in standard package.

Cat. No.	Description	For Lamp Watts	Wt.Lbs. Std.Pkg.	Price Each
103	No. 10 Wire Guard	75	5	**$0.90**
103-R	No. 10 Wire Reflector Guard	75	5	**1.00**
104	No. 9 Wire Guard, Heavy Duty	100	5	**1.25**
104-R	No. 9 Wire Guard, Heavy Duty, Reflector	100	6	**1.50**
105	No. 7 Wire Guard, Extra Heavy Duty	100	12	**1.75**
106	Inspection Guard, Full Reflector	100	7	**3.50**
107	Open End Guard, 3½-inch opening, with hook	100	8	**2.00**
117	Open End Guard, 3⅛-inch opening, with hook	60	7	**1.15**
118-R	No. 9 Wire Reflector Guard	200	12	**2.75**
***108**	Open	60	6	**2.75**
***109-M**	Reflector Guard M.T.	60	8	**3.00**
***110**	Heavy Duty Open type	100	12	**4.00**

*Safety insulated, rubber covered guards.

C & E RUBBER SOCKETS



Especially adapted for use on drop cords, etc., and is recommended for use in basements and damp places. Weatherproof, shock proof and lasts indefinitely. The heavy duty socket spring contact insert has a special cord grip clamp, relieving all strain on connections. Standard shade holder groove.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
4	Without Switch	10	100	14	**$0.60**
4–S	With Switch	10	100	14	**.85**

C & E SAFETY HANDLES

SAFETY RUBBER HANDLES FOR CORD GRIP BRASS SOCKETS



No. 2

For cords up to ½-inch diameter.

Cat. No.	Description	Carton	Std. Pkg.	Wt.	Price Each
2	Safety Handle	12	36	12	**$0.80**
2–S	Safety Handle	12	36	12	**.85**
2–P	Brass Push-Thru Socket with Cord Grip Cap	12	36	7½	**1.05**

C & E SAFETY HANDLES

SAFETY HANDLE FOR NO. 43310 WEATHERPROOF SOCKET



No. 43310



No. 3

Cat. No.	Description	Carton	Std. Pkg.	Wt.	Price Each
3	Safety Handle with Cord Strain Relief Ring	12	36	7½	**$0.80**
43310	Weatherproof Socket	12	36	7½	**.30**

SAFETY HANDLE FOR NO. 4 RUBBER SOCKET



No. 4



No. 5

Cat. No.	Description	Carton	Std. Pkg.	Wt.	Price Each
5	Heavy Duty Safety Handle	10	30	12	**$1.25**
4	Rubber Socket	10	100	14	**.60**

SAFETY RUBBER HANDLES FOR CORD GRIP INSERT SOCKETS



No. 6–B



No. 6

Cat. No.	Description	Carton	Std. Pkg.	Wt.	Price Each
6	Safety Handle	12	36	10	**$0.80**
6–B	Heavy Duty Socket Insert with Cord Grip Clamp	12	36	2½	**.30**
6–S	Safety Handle	12	36	10	**.85**
6–K	Heavy Duty Switch Insert Socket with Cord Grip	12	36	3½	**.55**

SAFETY RUBBER HANDLES FOR ALL TYPES OF WEATHERPROOF SOCKETS



No. 4-W

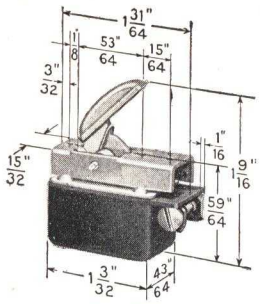


No. 7

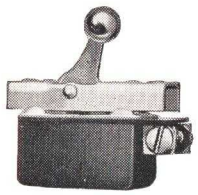
For use with 2 and 3-conductor cable, and cords up to $\frac{9}{16}$-inch diameter.

Cat. No.	Description	Carton	Std. Pkg.	Wt.	Price Each
7	Safety Handle with Cord Strain Relief Ring	10	30	9	**$1.00**
4–W	Rubber Weatherproof Socket	10	100	16	**.45**

C-H MOMENTARY CONTACT SWITCHES



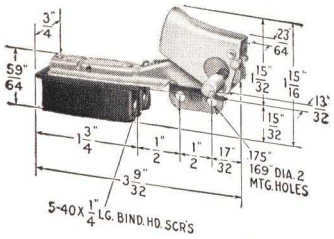
No. 8300



No. 8301
(See switch No. 8300 for base dimensions)

Light Duty

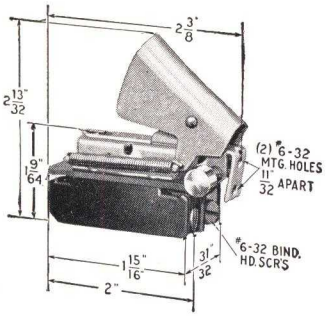
Cat. No.	Type	Operation	Rating
8300	S.P.	Trigger	3 A. 250 V., 6 A. 125 V. AC or DC
8301	S.P.	Lever	



Standard Duty Trigger Operation

6 Amp., 250 V., ½ H.P. 125-250 V. A.C. or D.C.

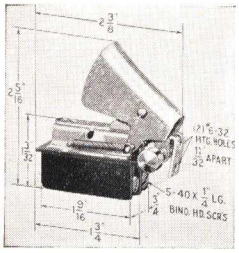
Cat. No.	Type
***8232**	Double Pole



Standard Duty Trigger Operation

6 Amp., 250 V., ½ H.P. 125-250 V. A.C. or D.C.

Cat. No.	Type
***8235**	Double Pole



Standard Duty Trigger Operation

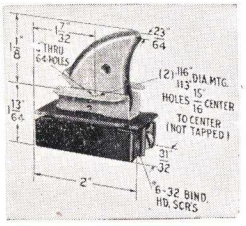
10 Amp., 250 V., 15 Amp., 125 V. 1 H.P. 125-250 V. A.C. or D.C.

Cat. No.	Type
***8255**	Double Pole

Standard Duty Trigger Operation

10 Amp., 250 V., 15 Amp., 125 V. 1 H.P. 125-250 V. A.C. or D.C.

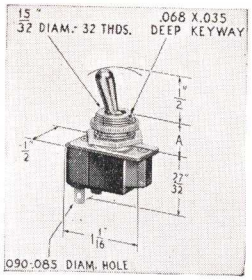
Cat. No.	Type
8253	Double Pole



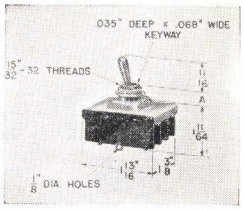
*Supplied with latching mechanism as illustrated. Easily removed if not desired.

C-H ONE HOLE MOUNTING SWITCHES

Light Duty—For A.C. or D.C. Service

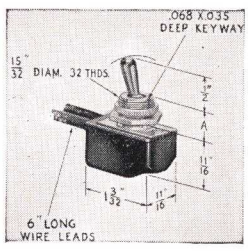


No. 8280

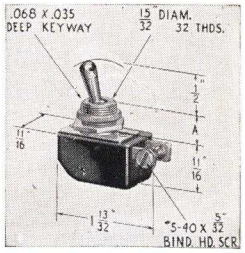


No. 8290

Cat. No.	Type	Rating	Terminals	Bushing Dim. "A"
8280	S.P.	3A. 250V.	Lug	15/32
8282	3 Way	1A. 250V., 3A. 125V.	Lug	15/32
8284	2 Cir.	1A. 250V., 3A. 125V.	Lug	11/32
8290	S.P.	3A. 250V.	Wire Lead	*
8295	S.P.	3A. 250V.	Screw	15/32
8381	S.P.	6A. 125V., 3A. 250V.	Lug	15/32



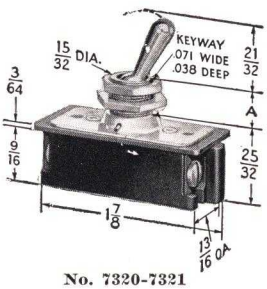
No. 8391



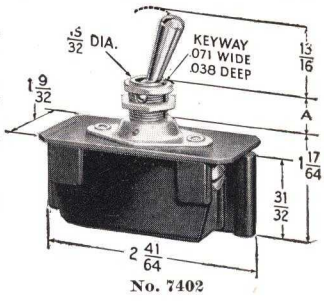
No. 8396

Cat. No.	Type	Rating	Terminals	Bushing Dim. "A"
8391	S.P.	6A. 125V., 3A. 250V.	Wire Lead	*
8396	S.P.	6A. 125V., 3A. 250V.	Screw	*
8371	D.P.	6A. 125V., 3A. 250V.	Wire Lead	15/32

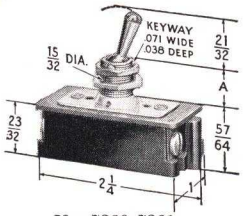
*Bushing length, ¼", 11/32" or 15/32". Specify length.



No. 7320-7321



No. 7402



No. 7360-7361

For A.C. or D.C. service.

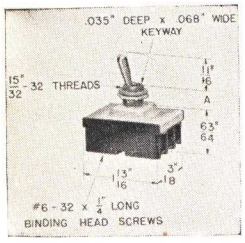
Specify bushing length (Dimension A) desired, 11/32" or 15/32" available.

Cat. No.	Type	Rating
7320	D.P.	6A. 250V., ½ H.P. 125-250V.
7321	S.P.	6A. 250V., ½ H.P. 125-250V.
7360	D.P.	15A. 125V. 10A. 250V., 1 H.P. 125-250V.
7361	S.P.	15A. 125V. 10A. 250V., 1 H.P. 125-250V.
7402	D.P.	20A. 250V., 1½ H.P. 110-220V.

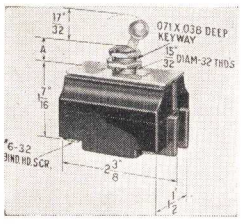
C-H ONE HOLE MOUNTING SWITCHES

THREE POLE SWITCHES

Screw Terminals — For A.C. Service Only
$\frac{15}{32}$" Bushing Length



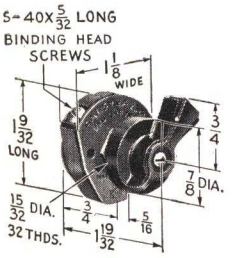
No. 7610



No. 8320

Cat. No.	Type	Rating
7610	3 P. S. T.	10 A. 250 V.
7612	3 P. D. T.	¾ H.P. 1-2-3 Ph., 115-575 V.
8320	3 P. S. T.	15 A. 250 V. 1 H.P. 1 Ph., 2 H.P. 3 Ph. 115 V. 2 H.P. 1 Ph., 3 Ph. 230-575 V.

*Center "Off" position.



ROTARY SWITCHES

Screw Terminals — Four Positions

2 A. 250 V., 5 A. 125 V., A.C. or D.C.

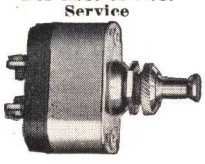
Cat. No.	Type
7012	Single Pole—3 "On", 1 "Off" Position

PUSH-PULL SWITCHES

Screw Terminals — Single Pole
1 A. 250 V., 5 A. 125 V., 10 A. 24 V.

Switch Body—¾" wide x $1\frac{15}{32}$" high x $1\frac{21}{64}$" deep. Bushing—⅜" dia.—27 threads.

For A.C. or D.C. Service



Cat. No.	Description
7106	$\frac{5}{16}$" Long Bushing
7116	1" Long Bushing
7118	$\frac{9}{16}$" Long Bushing



SINGLE POLE DOUBLE THROW SWITCH

With Center "Off" Position
Screw Terminals
3 A. 125 V. A.C., 10 A. 24 V.
$\frac{11}{32}$" Bushing Length

Cat. No.	Type
7140	Single Pole, Double Throw

INDICATING PLATE

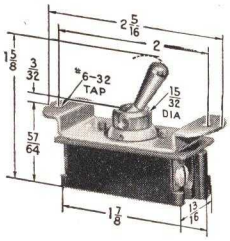
For All One Hole Mounting Switches



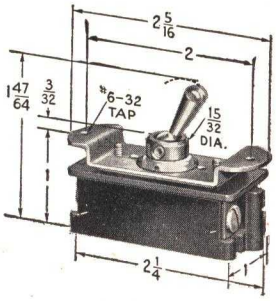
Cat. No.	
827-228F3	Nickel Plated

C-H FLUSH MOUNTING SWITCHES

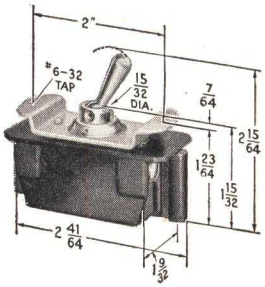
Screw Terminals—For A.C. or D.C. Service



No. 7330
Standard Duty



No. 7370
Heavy Duty

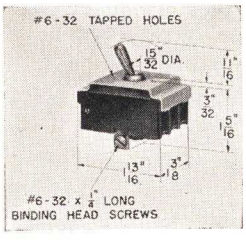


No. 7410
Extra Heavy Duty

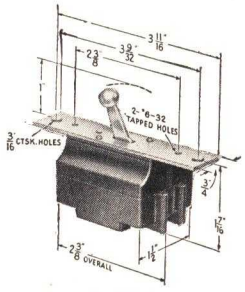
Cat. No.	Type	Rating
7330	Double Pole	6A. 250 V., ½ H.P. 125-250 V.
7370	Double Pole	15A. 125 V., 10 A. 250 V., 1 H.P. 125-250 V.
7410	Double Pole	20A. 250 V., 1½ H.P. 110-220 V.

THREE POLE SWITCHES

Screw Terminals — For A.C. Service Only



No. 7602

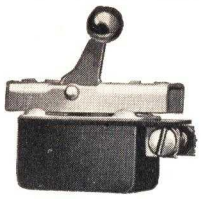


No. 8337

Cat. No.	Type	Rating
7600	3 P. S. T.	10 A. 250 V.
7602	3 P. D. T.	¾ H.P., 1-2-3 Ph., 115 V.-575 V.
8337	3 P. S. T.	15 A. 250 V. 1 H.P., 1 Ph.—2 H.P. 3 Ph. 115V. 2 H.P., 1 Ph.—3 Ph., 230V.-575V.

*Center "Off" position.

C-H FLUSH MOUNTING SWITCHES



LIGHT DUTY BALL HANDLE SWITCH

Screw Terminals

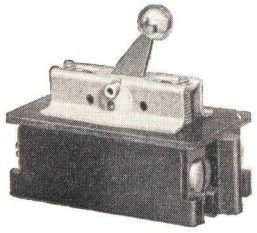
For Base Dimensions and Rating, See Switch No. 8300, listed on another page.

No.	Type
8302	Single Pole

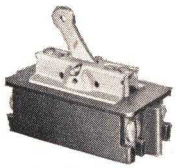
FOR REPLACEMENT SERVICE ONLY

Screw Terminals

For A.C. or D.C. Service.



8638-8639-8657-8658K1



No. 8658K2

Standard Duty

No.	Type	Lever	Rating
*8638	D.P.	Ball	6 Amp. 250V. ½ H.P. 125-250V.
*8639	S.P.	Ball	6 Amp. 250V. ½ H.P. 125-250V.

Heavy Duty

#8657	S.P.	Ball	10 Amp. 250V. 12A.-125V. 1 H.P. 125-250V.
#8658K1	D.P.	Ball	10 Amp. 250V. 12A.-125V. 1 H.P. 125-250V.
#8658K2	D.P.	Flat	10 Amp. 250V. 12A.-125V. 1 H.P. 125-250V.

*See **7330** Sw. for Base Dimensions.
#See **7370** Sw. for Base Dimensions.

DOOR SWITCHES

Screw Terminals — For A.C. or D.C. Service

One Hole Mounting

0.75A. 125V., 0.25A. 250V.

Single pole, single throw, with normally closed contacts. For **refrigerators, ranges, etc.**

No.	Type
8411	One hole mounting — Pushbutton

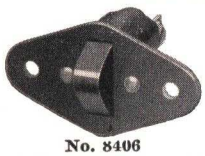


No. 8411

Body—$\frac{21}{32}$" dia. x $1\frac{3}{32}$" deep.
Bushing—$\frac{15}{32}$" dia., 32 Thrds. x $\frac{13}{32}$" long.
Button—$\frac{19}{64}$" dia. x $\frac{7}{16}$" long.

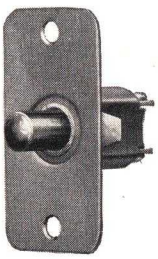
Flush Mounting

0.75A. 125V., 0.25A. 250V.



No. 8406

Flush plate—$1\frac{7}{8}$" wide x $1\frac{1}{16}$" high—2 holes, $\frac{5}{32}$" dia., spaced $1\frac{3}{8}$". Body depth, 1".



No. 8410

Flush plate — 1" wide x $1\frac{7}{8}$" high — 2 holes, .156" dia., spaced $1\frac{1}{2}$". Body — $\frac{43}{64}$" dia. x $1\frac{1}{8}$" deep. Button $\frac{19}{64}$" dia. x $\frac{7}{16}$" long.

Single pole, single throw, with normally closed contacts. For **refrigerators, ranges, etc.**

No.	Type
8406	Flush mounting—Rocker arm operator
8410	Flush mounting—Pushbutton operator

BETTS & BETTS THERMOSTATIC AND MOTOR DRIVEN FLASHERS

THERMOSTATIC FLASHERS

For Electric Signs and Window Displays



WINK-A-LYTE FLASHING PLUG

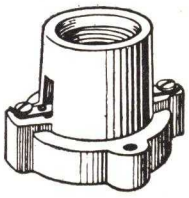
Approved by Underwriters Laboratories

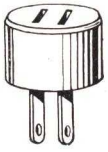
For any standard socket. Timing about 20 flashes per minute. No. 604. Capacity 20-100 watts.

RECEPTACLE FLASHER

Approved by Underwriters Laboratories

Flasher fully enclosed and protected within receptacle. Adjustable timing. No. 615. Capacity 20-100 watts.





PRONG-TYPE FLASHER

Approved by Underwriters Laboratories

For any standard female plug or convenient outlet. Timed for window displays. Capacity, 20-100 watts.

CORD SET WITH FLASHER SOCKET

Light-weight flasher cord set for window displays. No. 721. Capacity 20-100 watts.



FOR LARGER SIGNS AND INDUSTRIAL CONTROLS

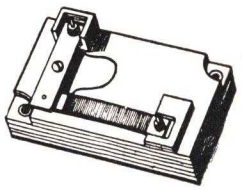


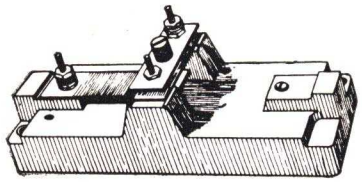
NO. 169 FLASHER

Adjustable timing. Capacity 20-100 watts.

NO. 672 FLASHER

Adjustable timing. Capacity: AC, 220 watts; DC, 175 watts.





NO. 674 FLASHER

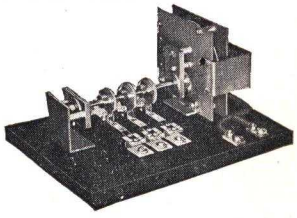
Adjustable timing. Capacity: AC, 440 watts; DC, 300 watts.

Each of the three flashers listed above may be had in the closed-circuit type for use in neon signs.

MOTOR DRIVEN FLASHERS

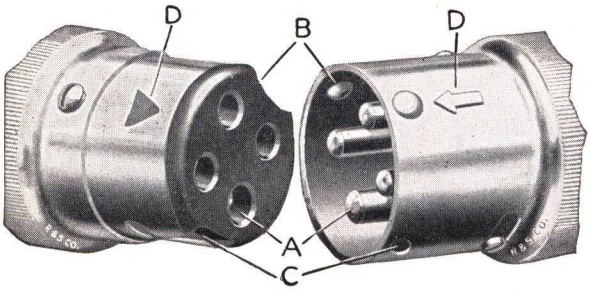
For A.C. Only

Multiple-circuit, silver contact flashers are made up from stock parts to produce any kind of flashing effect desired. Can be obtained with as many as 100 contacts.



R & S EVER-LOK RECEPTACLES PLUGS AND CORD CONNECTORS

GENERAL DESCRIPTION



One Large and 3 Smaller Contacts

The large (grounded) contact A will not fit into any but the one large hole A. The three smaller contacts fit into their corresponding holes. The staggered lugs B and C in the plug shell, will fit only into the corresponding staggered grooves in the shell of the connector or receptacle. (B to B only and C to C only.)

The interiors of molded bakelite are grooved to fit upset lugs on the shells so that improper assembly or alignment of the interior is impossible.

Terminals of the 4-pole devices are marked X, Y, Z, and G (ground). Terminals of 3-pole devices are marked 1, 2, and G. These markings maintain identity of polarity throughout.

Double Locking and Balanced Support

The outer shell of the plug floats on the inner shell and turns within the limits allowed by 2 screws in 2 slots on opposite sides of the shell. As the plug is inserted in a connector or receptacle, the lugs on outer shell ride diagonally down into the funnel-shaped grooves until they strike the bottom. The outer shell automatically turns on its axis by means of a spring in its base, and the lugs snap into position.

This double locking arrangement (on opposite sides of the shell) provides balanced support and prevents poor alignment.

Locks in Place

To unlock, it is necessary to grasp the plug firmly and give it a short reverse twist to bring the lugs back to where they will pull out of the grooves. Outer shoulders are knurled to facilitate this action, but the lock is positive and the plug cannot be withdrawn without first giving it this reverse twist.

Positive Grounding

Casings are positively grounded by double phosphor bronze springs. Equipment grounding is secured by a separate set of contacts which "make" first and "break" last (as required by Underwriters' Laboratories).

Unit Assembly

Contacts and terminals are permanently assembled in bakelite body permitting removal of interior only as a unit for wiring. All connections are entirely enclosed, thus obviating accidental short circuits and tampering by inexperienced persons.

R & S EVER-LOK CONDUIT BOX TYPE RECEPTACLES

FOR TYPE FS AND SIMILAR CONDUIT FITTINGS

Two, Three and Four Pole—Polarized



No. 8004



No. 8138

Covers are $4\frac{5}{16}$ x $2\frac{13}{16}$ inches, struck up steel .063-inch. With four retained cadmium plated screws for mounting on box.

Standard finish, cadmium plated. Other finishes extra.

Can also be furnished with cast iron box, corrosion resisting finish No. 8009 for surface mounting at $1.25 list additional. Maximum conduit 1-inch. Specify size and location when ordering.

Receptacle and Cover

Style Wire	Style Pole	With Spring Hinged Door Cat. No.	With Spring Hinged Door List Each	Without Door Cat. No.	Without Door List Each	Takes Plug No.
10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.						
2	2	**8002**	**$2.75**	**8133**	**$2.55**	8012
2	3	**8003**	**2.85**	**8134**	**2.65**	8013
3	4	**8008**	**2.95**	**8135**	**2.75**	8018
20 Amp., 440 Volts A.C. 30 Amp., 250 Volts D.C.						
2	2	**8006**	**2.90**	**8136**	**2.70**	8016
2	3	**8005**	**3.00**	**8137**	**2.80**	8015
3	4	**8004**	**3.10**	**8138**	**2.90**	8014

Prices do not include plugs. They are listed separately.

For mounting to standard single gang switch box with ¾-inch raised cover, specify Adapter Plate No. 8091 listed below.



No. 8091

ADAPTER-SUB-PLATE

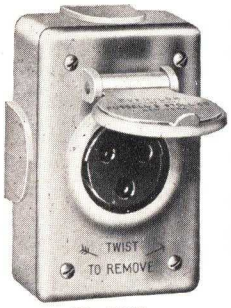
The addition of this adapter sub-plate will permit the use of Ever-Lok conduit box type receptacles, listed above, in any standard switch box or outlet box with raised cover.

Description	Cat. No.	List Each
Adapter Sub-Plate	**8091**	**$0.55**

R & S EVER-LOK CONDUIT BOX TYPE RECEPTACLES

MOUNTED ON SINGLE OR GANG TYPE FS CONDUIT BOXES

Two, Three and Four-Pole—Polarized



No. 8083

Covers standard finish, cadmium plated. Other finishes extra.

Cast iron boxes, corrosion resisting finish. Maximum conduit 1-inch. Single gang 4-way; multi-gang, one outlet on one side, one per gang on opposite side and one on each end. Specify size and location when ordering.

Receptacle, Box and Cover with Spring Hinged Door

Style Wire	Style Pole	Single Gang Cat. No.	Single Gang List Each	Double Gang Cat. No.	Double Gang List Each	Takes Plug No.
		10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.				
2	2	**8082**	**$3.65**	**8127**	**$7.30**	8012
2	3	**8083**	**3.75**	**8128**	**7.50**	8013
3	4	**8084**	**3.85**	**8129**	**7.70**	8018
		Three Gang		Four Gang		
2	2	**8159**	**11.45**	**8171**	**15.60**	8012
2	3	**8160**	**11.75**	**8172**	**16.00**	8013
3	4	**8161**	**12.05**	**8173**	**16.40**	8018
		20 Amp., 440 Volts A.C. 30 Amp., 250 Volts D.C.				
		Single Gang		Double Gang		
2	2	**8029**	**3.80**	**8130**	**7.60**	8016
2	3	**8030**	**3.90**	**8131**	**7.80**	8015
3	4	**8031**	**4.00**	**8132**	**8.00**	8014
		Three Gang		Four Gang		
2	2	**8162**	**10.95**	**8174**	**16.40**	8016
2	3	**8163**	**11.25**	**8175**	**16.80**	8015
3	4	**8164**	**11.55**	**8176**	**17.20**	8014

Prices do not include plugs. They are listed separately.

FOR TYPE W AND SIMILAR CONDUIT FITTINGS

Two, Three and Four-Pole—Polarized

Covers are flanged to fit any Type W and similar conduit fittings. Provided with four screw-hole knockouts. Standard finish, cadmium plated. Other finishes extra.

Can also be furnished with cast iron box, corrosion resisting finish, No. 8039 at **$1.00** list additional.



No. 8033

Receptacle and Cover

Style Wire	Style Pole	With Spring Hinged Door Cat. No.	With Spring Hinged Door List Each	Without Hinged Door Cat. No.	Without Hinged Door List Each	Takes Plug No.
		10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.				
2	2	**8032**	**$2.75**	**8139**	**$2.55**	8012
2	3	**8033**	**2.85**	**8140**	**2.65**	8013
3	4	**8034**	**2.95**	**8141**	**2.75**	8018

Prices do not include plugs. They are listed separately.

R & S EVER-LOK FUSIBLE PLUGS AND CONNECTORS

Four Pole—Polarized

20 Amp., 250 Volts D.C.—30 Amp., 125 Volts D.C.

A convenience for protection of branch circuit extensions or for motor overload protection of small motors. For use in conjunction with Ever-Lok receptacles and connectors.

STANDARD N.E.C. FUSIBLE TYPE

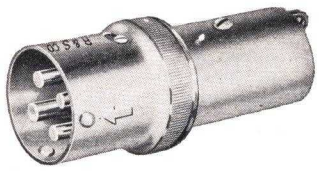


No. 9114

Safety bakelite holder for Standard N.E.C. fuses or Fusetrons.

Description	Cat. No.	List Each
3 fused and 1 grounded pole.....	**9114**	**$8.00**

MIDGET FUSIBLE TYPE



No. 9144

For Midget fuses or Midget fusetrons.

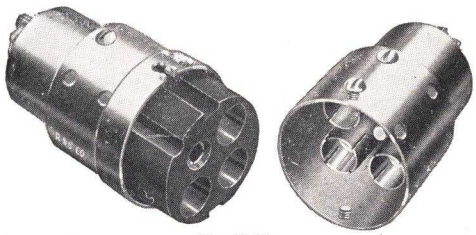
Description	Cat. No.	List Each
3 fused and 1 grounded pole.....	**9144**	**$4.50**

Enclosure—Steel. Cadmium plated finish. Maximum cable, 5/8-inch diameter.

STANDARD N.E.C. FUSIBLE CONNECTORS

Four Pole—Polarized

20 Amp., 250 Volts D.C.—30 Amp., 125 Volts D.C.



No. 9124

Complete separable connector with safety bakelite holder for N.E.C. fuses. For disconnect use only.

Description	Cat. No.	List Each
3 fused and 1 grounded pole.....	**9124**	**$7.50**

Enclosure—Steel. Cadmium plated finish. Maximum cable, 5/8-inch diameter.

Fuses are not included.

R & S EVER-LOK FLUSH TYPE RECEPTACLES

FOR STANDARD OUTLET BOX ¾-INCH RAISED COVERS

Two, Three and Four Pole—Polarized

WITH DOUBLE HINGED DOOR



No. 8043

*Requires standard double gang outlet box raised covers. †Requires standard three-gang outlet box raised covers. Can also be furnished in any number of gangs. Prices on application.

Plates: Brass, brushed finish standard. Other finishes extra.

Prices do not include plugs; they are listed separately.

Receptacles and Plate

Style Wire	Style Pole	Single Gang Cat. No.	Single Gang List Each	Double Gang Cat. No.	Double Gang List Each	Takes Plug No.
		10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.				
2	2	**8042**	**$4.70**	**†8066**	**$9.40**	8012
2	3	**8043**	**4.80**	**†8067**	**9.60**	8013
3	4	**8044**	**4.90**	**†8068**	**9.80**	8018
		20 Amp., 440 Volts A.C. 30 Amp., 250 Volts D.C.				
2	2	**8048**	**5.70**	**†8102**	**11.40**	8016
2	3	**8049**	**5.80**	**†8103**	**11.60**	8015
3	4	**8050**	**5.90**	**†8104**	**11.80**	8014

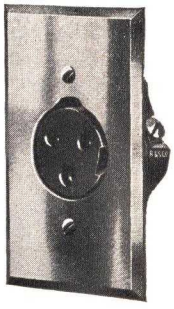
WITHOUT DOOR

For Standard Outlet Box Raised Cover

*Requires standard double gang outlet box raised covers. †Requires standard three gang outlet raised covers. Can also be furnished in any number of gangs. Prices on application.

Plates: Brass, brushed finish standard. Other finishes extra.

Prices do not include plugs; they are listed separately.



No. 8070

Receptacles and Plate

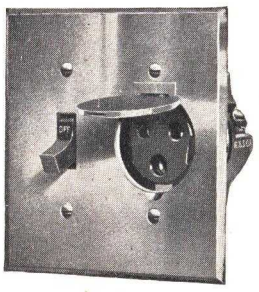
Style Wire	Style Pole	Single Gang Cat. No.	Single Gang List Each	Double Gang Cat. No.	Double Gang List Each	Takes Plug No.
		10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.				
2	2	**8069**	**$3.30**	***8062**	**$6.60**	8012
2	3	**8070**	**3.40**	***8063**	**6.80**	8013
3	4	**8071**	**3.50**	***8064**	**7.00**	8018
		20 Amp., 440 Volts A.C. 30 Amp., 250 Volts D.C.				
2	2	**8019**	**3.45**	**†8055**	**7.35**	8016
2	3	**8020**	**3.55**	**†8056**	**7.55**	8015
3	4	**8021**	**3.65**	**†8057**	**7.75**	8014

R & S EVER-LOK FLUSH TYPE RECEPTACLES

FOR COMBINATION WITH TOGGLE SWITCH

Two, Three and Four Pole—Polarized

WITH DOUBLE HINGED DOOR



No. 8053

For standard double gang outlet box raised covers.

Plates: Brass, brushed finish standard. Other finishes extra.

Prices do not include switches or plugs; any standard make of toggle switch may be used. Plugs are listed separately.

Receptacle and Plate Without Switch

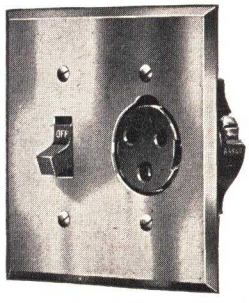
Style Wire	Style Pole	Cat. No.	List Each	Takes Plug No.
		10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.		
2	2	**8052**	**$7.40**	8012
2	3	**8053**	**7.50**	8013
3	4	**8054**	**7.60**	8018
		20 Amp., 440 Volts A.C. 30 Amp., 250 Volts D.C.		
2	2	**8106**	**8.50**	8016
2	3	**8107**	**8.60**	8015
3	4	**8108**	**8.70**	8014

WITHOUT DOOR

For standard double gang outlet box raised covers.

Plates: Brass, brushed finish standard. Other finishes extra.

Prices do not include switches or plugs; any standard make of toggle switch may be used. Plugs are listed separately.



No. 8113

Receptacle and Plate Without Switch

Style Wire	Style Pole	Cat. No.	List Each	Takes Plug No.
		10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.		
2	2	**8112**	**$5.50**	8012
2	3	**8113**	**5.60**	8013
3	4	**8114**	**5.70**	8018
		20 Amp., 440 Volts A.C. 30 Amp., 250 Volts D.C.		
2	2	**8109**	**5.65**	8016
2	3	**8110**	**5.75**	8015
3	4	**8111**	**5.85**	8014

Other combinations can be made to order. Prices on application.

R & S EVER-LOK PLUGS AND CONNECTORS

EVER-LOK PLUGS—MALE END

Two, Three and Four-Pole—Polarized



No. 8014
With Clamp Type Cable Grip



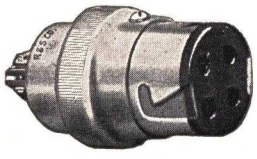
No. 8153
With Bushing Type Cable Grip

Plugs are entirely steel-clad, cadmium plated finish. They have encased locking spring in machine assembled non-separable housings and are provided with adjustable cord grips preventing strains on connections. Contacts are machined, self-wiping, and self-aligning.

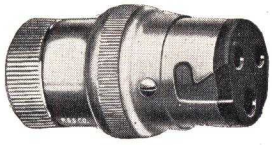
Style Wire	Style Pole	With Clamp Type Cable Grip Cat. No.	List Each	Max. Cable Inches	With Bushing Type Cable Grip Cat. No.	List Each	Max. Cable Inches
10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.							
2	2	**8012**	**$1.75**	½	**8152**	**$2.30**	13/16
2	3	**8013**	**1.85**	½	**8153**	**2.40**	13/16
3	4	**8018**	**1.95**	½	**8158**	**2.50**	13/16
20 Amp., 440 Volts A.C. 30 Amp., 250 Volts D.C.							
2	2	**8016**	**1.80**	5/8	**8156**	**2.35**	1
2	3	**8015**	**1.90**	5/8	**8155**	**2.45**	1
3	4	**8014**	**2.00**	5/8	**8154**	**2.55**	1

EVER-LOK CONNECTORS FEMALE END

Two, Three and Four Pole—Polarized



No. 8024
With Clamp Type Cable Grip



No. 8093
With Bushing Type Cable Grip

Connectors are steel-clad, cadmium plated finish and are provided with adjustable cord-grips preventing strain on connections. Contacts are machined, self-wiping, and self-aligning.

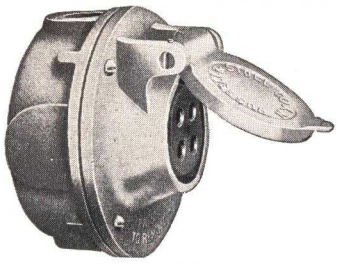
Style Wire	Style Pole	With Clamp Type Cable Grip Cat. No.	List Each	Max. Cable Inches	With Bushing Type Cable Grip Cat. No.	List Each	Max. Cable Inches
10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.							
2	2	**8022**	**$2.60**	½	**8092**	**$3.15**	13/16
2	3	**8023**	**2.70**	½	**8093**	**3.25**	13/16
3	4	**8028**	**2.80**	½	**8098**	**3.35**	13/16
20 Amp., 440 Volts D.C. 30 Amp., 250 Volts D.C.							
2	2	**8026**	**2.80**	5/8	**8096**	**3.35**	1
2	3	**8025**	**2.90**	5/8	**8095**	**3.45**	1
3	4	**8024**	**3.00**	5/8	**8094**	**3.55**	1

R & S EVER-LOK WEATHERTIGHT TYPE RECEPTACLES

REGULAR SERVICE—FEMALE RECEPTACLE FOR MALE PLUG

WITH No. 333 JUNCTION BOX

Two, Three and Four Pole—Polarized



No. 8047

Boxes and covers, cast iron corrosion resisting finish. Screw cap and chain, brass. Maximum conduit ¾-inch. Specify size and location when ordering. Prices do not include plugs. They are listed separately.

Receptacle, Cover and Box

Style Wire	Style Pole	With Spring Door Cat. No.	List Each	With Screw Cap and Chain Cat. No.	List Each	Takes Plug No.
10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.						
2	2	**8035**	**$4.50**	**8121**	**$5.20**	8012
2	3	**8036**	**4.60**	**8122**	**5.30**	8013
3	4	**8037**	**4.70**	**8123**	**5.40**	8018
20 Amp., 440 Volts A.C.—30 Amp., 250 Volts D.C.						
2	2	**8045**	**4.80**	**8124**	**5.40**	8016
2	3	**8046**	**4.90**	**8125**	**5.50**	8015
3	4	**8047**	**5.00**	**8126**	**5.60**	8014

REVERSE SERVICE—MALE RECEPTACLE FOR FEMALE PLUG

WITH No. 2401 JUNCTION BOX

Two, Three and Four Pole—Polarized



No. 8221

Boxes and covers, cast iron corrosion resisting finish. Screw cap and chain, brass. Maximum conduit 1-inch. Specify size and location when ordering. Prices do not include plugs. They are listed separately.

Receptacle, Cover and Box

Style Wire	Style Pole	With Spring Door Cat. No.	List Each	With Screw Cap and Chain Cat. No.	List Each	Takes Plug No.
10 Amp., 250 Volts D.C.—440 Volts A.C. 20 Amp., 125 Volts D.C.						
2	2	**8238**	**$6.05**	**8216**	**$6.75**	8022
2	3	**8239**	**6.15**	**8217**	**6.85**	8023
3	4	**8240**	**6.25**	**8218**	**6.95**	8028
20 Amp., 440 Volts A.C.—30 Amp., 250 Volts D.C.						
2	2	**8241**	**6.60**	**8219**	**7.30**	8026
2	3	**8242**	**6.70**	**8220**	**7.40**	8025
3	4	**8243**	**6.80**	**8221**	**7.50**	8024

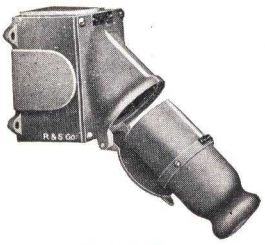
R & S ANGLE TYPE RECEPTACLES

WEATHERTIGHT (TYPE A)

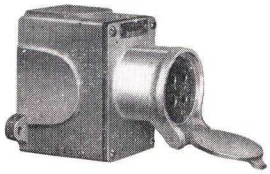
15 to 200 Amperes

250 Volts D.C. — 440 Volts A.C.

2-, 3- and 4-Wire — Polarized



45° Angle Type



Straight Type

Box and receptacle housing are heavy castings provided with gaskets and cast hinged spring flap cover. Corrosion resisting finish.

Positive polarization to insure assembly of contact members. Provision is made for grounding to meet Underwriters' requirements. Plug housing is light in weight and convenient to handle.

Straight Type: Catalog numbers shown are for 45° Angle Type Receptacles. For Straight Type, prefix "RA" to catalog number.

Style Wire	Poles	Receptacle Less Plug — Single Gang Cat. No.	Single Gang Price Each	Two Gang Cat. No.	Two Gang Price Each	Plugs Only Cat. No.	Plugs Only Price Each
		15 Amperes					
2	2	3102	$ 5.95	3109	$11.90	3106	$ 4.30
*2	3	3103	6.60	3110	13.20	3107	4.95
3	3	3103W	6.60	3110W	13.20	3107W	5.15
*3	4	3104	7.25	3111	14.50	3108	5.60
4	4	3104W	7.25	3111W	14.50	3108W	5.85
		30 Amperes					
2	2	3112	6.60	3119	13.20	3116	4.30
*2	3	3113	7.25	3120	14.50	3117	4.95
3	3	3113W	7.25	3120W	14.50	3117W	5.15
*3	4	3114	7.90	3121	15.80	3118	5.60
4	4	3114W	7.90	3121W	15.80	3118W	5.85
		60 Amperes					
2	2	3122	11.20	3129	22.40	3126	5.95
*2	3	3123	11.90	3130	23.80	3127	6.60
3	3	3123W	11.90	3130W	23.80	3127W	6.90
*3	4	3124	12.55	3131	25.10	3128	7.25
4	4	3124W	12.55	3131W	25.10	3128W	7.55
		100 Amperes					
2	2	3132	24.20	3139	48.40	3136	13.20
*2	3	3133	25.30	3140	50.60	3137	14.30
3	3	3133W	25.30	3140W	50.60	3137W	15.40
*3	4	3134	26.40	3141	52.80	3138	15.40
4	4	3134W	26.40	3141W	52.80	3138W	16.50
		200 Amperes					
2	2	3142	66.00	3149	132.00	3146	33.00
*2	3	3143	71.50	3150	143.00	3147	38.50
3	3	3143W	71.50	3150W	143.00	3147W	40.70
*3	4	3144	77.00	3151	154.00	3148	44.00
4	4	3144W	77.00	3151W	154.00	3148W	46.20

*Equipment grounded through separate pole; all others have equipment ground through shell only.

Maximum Outlets—15 amp. 1-inch; 30-60 amp. 1½-inch; 100 amp. 2½-inch; 200 amp. 3-inch. Specify size and location when ordering.

Also available for 600 volts A.C.

R & S ANGLE TYPE RECEPTACLES

WATER-TIGHT (TYPE B)

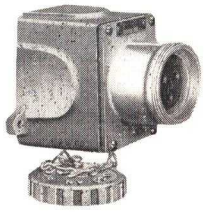
15 to 200 Amperes

250 Volts D.C. — 440 Volts A.C.

2-, 3- and 4-Wire — Polarized



45° Angle Type



Straight Type

Box and receptacle housing are heavy castings provided with a screw thread to take gasketed brass cap and plug collar. Corrosion resisting finish.

Positive polarization to insure assembly of contact members. Provision for grounding to meet Underwriters' requirements. External rib to provide visual indication for plug insertion. Large conduit bosses and ample space for wiring.

Plug housing is light in weight and convenient to handle. Provided with a rubber gland cable outlet.

Straight Type: Catalog numbers shown are for 45° Angle Type Receptacles. For Straight Type, prefix "RA" to catalog number.

Style Wire	Poles	Receptacle Less Plug — Single Gang Cat. No.	Single Gang Price Each	Two Gang Cat. No.	Two Gang Price	Plugs Only Cat. No.	Plugs Only Price Each
		15 Amperes					
*2	2	3302	$ 8.90	3309	$17.80	3306	$ 7.25
2	3	3303	9.55	3310	19.10	3307	7.90
3	4	3304	10.25	3311	20.50	3308	8.60
		30 Amperes					
*2	2	3312	9.90	3319	19.80	3316	7.25
2	3	3313	10.55	3320	21.10	3317	7.90
3	4	3314	11.20	3321	22.40	3318	8.60
		60 Amperes					
*2	2	3322	16.85	3329	33.70	3326	8.90
2	3	3323	17.50	3330	35.00	3327	9.55
3	4	3324	18.15	3331	36.30	3328	10.25
		100 Amperes					
*2	2	3332	25.30	3339	50.60	3336	17.60
2	3	3333	26.40	3340	52.80	3337	18.70
3	4	3334	27.50	3341	55.00	3338	19.80
		200 Amperes					
*2	2	3342	71.50	3349	143.00	3346	38.50
2	3	3343	77.00	3350	154.00	3347	44.00
3	4	3344	82.50	3351	165.00	3348	49.50

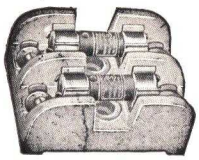
*Fittings marked (*) have no provision for equipment grounding. All others have equipment ground through separate pole.

Maximum Outlets—15 amp. 1-inch; 30-60 amp. 1½-inch; 100 amp. 2½-inch; 200 amp. 3-inch. Specify size and location when ordering.

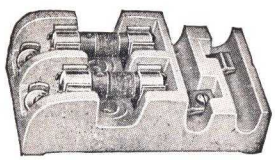
Also available for 600 volts A.C.

SHAWMUT CUTOUT BASES

N. E. C. Standard to 600 Amperes Inclusive



Main Line



Single Branch

0-600 AMPS., 250 VOLTS

FERRULE CONTACT

Porcelain

Cat. No.	Amps.	Description	Carton	List per 100
20675	0–30	S.P. Main Line	5	$48.00
2077	0–30	D.P. Main Line	5	68.00
2079	0–30	T.P. Main Line	5	93.00
2081	0–30	D.P. Single Branch	1	96.00
2085	0–30	D.P. Double Branch	1	180.00
2083	0–30	T.P. Single Branch	1	168.00
20835	0–30	T.P. Double Branch	1	270.00
2087	0–30	3-2 Wire Double Br.	1	216.00
20685	31–60	S.P. Main Line	5	72.00
2078	31–60	D.P. Main Line	1	150.00
2080	31–60	T.P. Main Line	1	220.00
2082	31–60	D.P. Single Branch	1	193.00
2086	31–60	D.P. Double Branch	1	365.00
2084	31–60	T.P. Single Branch	1	340.00
20845	31–60	T.P. Double Branch	1	620.00
2088	31–60	3-2 Wire Double Br.	1	450.00

Moulded Composition

1067	0–30	S.P. Main Line	5	43.00
1068	31–60	S.P. Main Line	5	68.00
1069	61–100	S.P. Main Line	1	140.00

KNIFE BLADE CONTACT

Porcelain

Cat. No.	Amps.	Description	Carton	List per 100
20695	61–100	S.P. Main Line	1	$190.00
2101	61–100	D.P. Main Line	1	320.00
2102	61–100	T.P. Main Line	1	460.00

Slate

2070	101–200	S.P. Main Line	1	280.00
2071	201–400	S.P. Main Line	1	760.00
2072	401–600	S.P. Main Line	1	1000.00

0-600 AMPS., 600 VOLTS

FERRULE CONTACT

Porcelain

Cat. No.	Amps.	Description	Carton	List per 100
20735	0–30	S.P. Main Line	1	$72.00
20745	31–60	S.P. Main Line	1	120.00

Moulded Composition

1073	0–30	S.P. Main Line	5	64.00
1074	31–60	S.P. Main Line	1	95.00

KNIFE BLADE CONTACT

Slate

Cat. No	Amps.	Description	Carton	List per 100
2075	61–100	S.P. Main Line	1	$240.00
2076	101–200	S.P. Main Line	1	345.00
2095	201–400	S.P. Main Line	1	860.00
2096	401–600	S.P. Main Line	1	1135.00

SHAWMUT FUSE CLIPS, TERMINALS AND WIRE LUGS

SHAWMUT FUSE CLIPS





		250 Volts			600 Volts		
Amp.	Std. Pkg.	Cat. No.	Pkg. Wt.	Price Each	Cat. No.	Pkg. Wt.	Price Each
30	100	2103	1¼	$0.03	2105	1¼	$0.06
60	100	2104	3	.06½	2106	3	.09
100	100	2107	8	.14	21075	8	.14
200	100	2108	21	.30	21085	21	.30
400	50	2552	39	2.00	2554	39	2.00
600	20	2553	23	3.00	2555	23	3.00

SHAWMUT FUSE TERMINALS

Front Connection

		250 Volts			600 Volts		
Amp.	Std. Pkg.	Cat. No.	Pkg. Wt.	Price Each	Cat. No.	Pkg. Wt.	Price Each
30	100	2114	4	$0.10	2116	4½	$0.14
60	100	2115	8	.20	2117	9	.24
100	100	2118	19	.50	21185	19	.50
200	100	2119	44	1.10	21195	44	1.10
400	50	2120	53	3.00	21205	53	3.00
600	20	2121	34	5.00	21215	34	5.00
800	20	2351	70	8.00	2499	70	8.00
1000	20	2484	95	12.00	2502	95	12.00

Back Connection

30	100	2122	6	$0.25	2124	7	$0.30
60	100	2123	16½	.44	2125	18	.50
100	100	2126	30	2.00	21265	30	2.00
200	100	2127	60	3.40	21275	69	3.40
400	50	2128	90	6.00	21285	90	6.00
600	20	2129	65	10.00	21295	65	10.00
800	20	23515	125	12.00	2503	125	12.00
1000	20	24845	175	16.00	2504	175	16.00

SHAWMUT WIRE LUGS

Front Connection

Cat. No.	Amp.		Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
2109	60	No. 4 B. & S.	100	1½	$0.08
2110	100	0	100	3	.10
2111	200	000	100	8	.14
2112	400	400,000 Cm.	50	12	.40
2113	600	600,000 Cm.	20	11	.60
2550	800	900,000 Cm.	20	20	1.80
2551	1000	1,000,000 Cm.	20	40	2.20

Back Connection

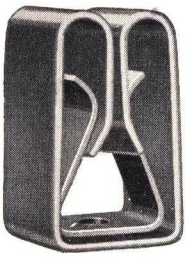
21095	60	No. 4 B. & S.	100	1¾	.08
21105	100	0	100	3	.24
21115	200	000	100	8	.44
21125	400	400,000 Cm.	50	11	.90
21135	600	600,000 Cm.	20	10	1.60
25505	800	900,000 Cm.	20	18	1.80
25515	1000	1,000,000 Cm.	20	32	2.20

SQUARE D FUSE CLIPS

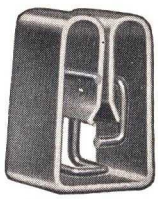
POSITIVE PRESSURE FUSE CLIPS



No. SK2371



No. SK2365



No. SK2363

250 Volts

Cat. No.	Amps.	Type	Price Per 100	Cat. No.	Amps.	Type	Price Per 100
*SK-2370	30	Clip	$17.00	‡SK-2364	200	Jaw	$149.00
SK-2371	30	Clip	17.00	‡SK-2365	400	Jaw	360.00
SK-2372	60	Clip	22.00	‡SK-2366	600	Jaw	616.00
‡SK-2363	100	Jaw	74.00	.....	.....	.....	.....

600 Volts

SK-2361	30	Clip	20.00	‡SK-2364	200	Jaw	149.00
SK-2362	60	Clip	27.00	‡SK-2365	400	Jaw	360.00
‡SK-2363	100	Jaw	74.00	‡SK-2366	600	Jaw	616.00

*For lighting panels only. ‡Pressure springs included but not assembled to clip.

REINFORCING SPRINGS ONLY

Designed to convert multi-spring jaws to positive pressure type.

Cat. No.	Amps.	Price Per 100	Cat. No.	Amps.	Price Per 100
SK-2373	100	$52.00	SK-2375	400	$120.00
SK-2374	200	60.00	SK-2376	600	180.00

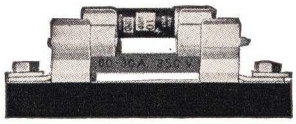
IDEAL FUSE CLIP CLAMPS

Eliminate unnecessary watt loss, fuse and fuse clip replacement. Assure proper alignment and positive contact between fuse and clips. The seven sizes listed provide for all possible requirements.



Cat. No.	Size, Amps. 250V.	Size, Amps. 600V.	Std. Pkg.	Price Each
	Ferrule Type			
32-001	30	....	12	$0.41
32-002	60	30	12	.61
32-003	....	60	6	.88
	Knife Type			
32-004	100	100	6	.79
32-005	200	200	6	1.29
32-006	400	400	6	1.81
32-007	600	600	6	2.59

IDEAL FUSE REDUCERS



Protect overfused circuits without expense of special fuses, change in switch panel or equipment. Eliminate fire hazards and burnouts. Handy for emergency use. Fully approved. Listed by Underwriters' Laboratories.

Cat. No. 250-V	Cat. No. 600-V	Ampere	Cat. No. 250-V	Cat. No. 600-V	Ampere
*FR-263	*FR-663	60-30	*FR-241	FR-641	400-100
*FR-213	FR-613	100-30	*FR-242	FR-642	400-200
*FR-216	*FR-616	100-60	FR-2603	FR-6603	600-30
FR-223	FR-623	200-30	FR-266	FR-666	600-60
FR-226	FR-626	200-60	FR-261	FR-661	600-100
FR-221	*FR-621	200-100	FR-262	FR-662	600-200
FR-243	FR-643	400-30	FR-264	FR-664	600-400
FR-246	FR-646	400-60	.....	.....	.....

Prices upon application. *Stock items.

BUSS FUSE REDUCERS



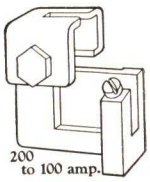
Make it possible to use Fusetron or ordinary fuses of a size smaller than the fuse clips are intended to hold.

Fit in any panel or switch as reducers, take up no more space than would a fuse of a size to fit clips.

Poor contact troubles are entirely eliminated because these reducers provide clamp contact throughout.

Reducers fit any form of clip, either the spring type or clamp type.

Packed—one pair in a carton.



Volts	Amp. Rating	No.	Price per pair
250 Volt	60 to 30	263	$0.60
250 Volt	100 to 30	213	1.15
250 Volt	100 to 60	216	.85
250 Volt	200 to 60	226	2.50
600 Volt	60 to 30	663	.70
600 Volt	100 to 30	Use No. 216	
600 Volt	100 to 60	616	1.40
600 Volt	200 to 60	626	4.15
250 or 600 V.	200 to 100	2621	1.65
250 or 600 V.	400 to 200	2642	2.60

PLUG FUSE CUTOUTS

FUSED NEUTRAL

30 Amperes, 125 Volts



No. 2569



No. 2965



No. 1935



No. 8020



No. 2587



No. 2199



No. 2165



No. 8042



No. 2135

Single Pole, Main Line

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
2569	10	100	42	.....
	2-Wire Main Line			
2965	10	100	60	.....
	2-Wire Single Branch			
1935	5	50	43	.....
	2-Wire Single or Double Crossover Branch			
8020	5	50	51	.....
	2-Wire Double Branch			
2587	5	50	64	.....
	3 to 2-Wire Double Branch			
2199	5	50	76	.....
	3-Wire Main Line			
2165	5	50	46	.....
	3-Wire Single Branch			
8042	5	50	90	.....
	3-Wire Double Branch			
2135	5	50	122	.....

PLUG CUTOUTS

SOLID NEUTRAL

30 Amperes 125 Volts


No. 29650


No. 19350


No. 25870


No. 21990


No. 21650


No. 80420


No. 23150


No. 23115

2-Wire Main Line

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
29650	10	150	63	**$60.00**

2-Wire Single Branch

19350	10	100	64	**70.00**

2-Wire Double Branch

25870	5	50	46	**110.00**

3 to 2-Wire Double Branch

21990	5	50	58	**120.00**

3-Wire Main Line

21650	5	50	45	**100.00**

3-Wire Single Branch or 2-Circuit

80420	5	25	29	.....

3-Wire Double Branch or 4-Circuit

23150	5	25	41	**180.00**

2-Wire Double Branch or 2-Circuit

23115	10	100	70	**84.00**

BUSS ONE-TIME MIDGET FUSES

250 Volt, $\frac{13}{32}$ x 1½ inch. Are made with the same engineering and care as all products carrying the BUSS trade mark — hence provide dependability and accuracy. Do not carry Underwriters' Laboratories label.



Symbol and Amperes	Carton Qty.	Wt. Lbs. Per 100	Price Each
BAF 1 **BAF 3** **BAF 6** **BAF 10** **BAF 15**	25	2	**$0.15**

BUSS TAP FUSES

For trolley taps, in mine service, etc. Old No. 5284.

Symbol	Diam. of Cap	Length	Usual Amperages
BRT	1 1/16"	5½"	20–30–35–40–50–60
BRT	1 1/16"	5½"	70–80–100
BRT	1 1/16"	5½"	125–150–175–200–225
BRT	1 1/16"	5½"	250–275–300–350–400

Prices on request.

BUSS ONE-TIME FUSES

NON-RENEWABLE



1 to 60 ampere



70 to 600 ampere

Carry Underwriters' Laboratories Inspected label. But fuses cannot be judged by this label alone. It only shows they meet minimum requirements of safety.

Fuses can fail in many other ways. When one blows needlessly because of a badly soldered link —or because of heating from crooked terminals or caps—or from corrosion of link—the user pays the cost of a useless shutdown. Or when a fuse fails to blow quickly enough because of an inaccurate link, the user pays for the damage that results.

When such troubles from ordinary-run fuses kick back, the dealer pays in lost fuse orders and often loss of other business to boot.

The best guarantee of dependable protection for the user and insurance against loss of profits for the dealer is the BUSS Trade-Mark. It is KNOWN and recognized everywhere as standing for the highest quality in fuses.

BUSS One-Time fuses get the same engineering and care in manufacture as other products carrying the BUSS trade-mark—hence each and every BUSS One-Time fuse can be depended on to operate as intended.

For Voltages up to 250 Volts				For Voltages up to 600 Volts			
Symbol and Amperes	Lgth. Ins.	Car. Qty.	Price Each	Symbol and Amperes	Lgth. Ins.	Car. Qty.	Price Each
NON 1 NON 3 NON 6 NON 10 NON 15 NON 20 NON 25 NON 30	2	10	**$0.15**	NOS 1 NOS 3 NOS 6 NOS 10 NOS 15 NOS 20 NOS 25 NOS 30	5	10	**$0.50**
NON 35 NON 40 NON 45 NON 50 NON 60	3	10	**.30**	NOS 35 NOS 40 NOS 45 NOS 50 NOS 60	5½	10	**.80**
NON 70 NON 80 NON 90 NON 100	5⅞	5	**.90**	NOS 70 NOS 80 NOS 90 NOS 100	7⅞	5	**1.80**
NON 110 NON 125 NON 150 NON 175 NON 200	7⅛	1	**2.00**	NOS 110 NOS 125 NOS 150 NOS 175 NOS 200	9⅝	1	**3.50**
NON 225 NON 250 NON 300 NON 350 NON 400	8⅝	1	**3.60**	NOS 225 NOS 250 NOS 300 NOS 350 NOS 400	11⅝	1	**7.00**
NON 450 NON 500 NON 600	10⅜	1	**5.50**	NOS 450 NOS 500 NOS 600	13⅜	1	**10.00**

BUSS SUPER-LAG RENEWABLE FUSES

N. E. C. Standard



3 to 60 Amperes



70 to 600 Amperes

Reduce to extent not possible with other renewable fuses, number of shutdowns caused by needless blows. Patent fuse-case and Super-Lag link make this possible. Save time and money and decrease out-of-service losses.

Costs often cut in half on new motor installations as Code (Paragraph 4346) in many cases permits smaller size fused safety switches, fuse panels or fuse blocks if Buss Super-Lag fuses are used.

Every Buss Super-Lag fuse carries inspection label of Underwriters' Laboratories.

250-Volt Links				600-Volt Links		
Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton	Symbol and Amperes	Wt. Lbs. Per 100	Price Each
REN3	5.5	$0.40	10	RES3	18	$1.00
REN6	5.5	.40	10	RES6	18	1.00
REN10	5.5	.40	10	RES10	18	1.00
REN15	5.5	.40	10	RES15	18	1.00
REN20	5.5	.40	10	RES20	18	1.00
REN25	5.5	.40	10	RES25	18	1.00
REN30	5.5	.40	10	RES30	18	1.00
REN35	14	.80	10	RES35	36	1.60
REN40	14	.80	10	RES40	36	1.60
REN45	14	.80	10	RES45	36	1.60
REN50	14	.80	10	RES50	36	1.60
REN60	14	.80	10	RES60	36	1.60
REN70	46	1.80	5	RES70	83	3.60
REN80	46	1.80	5	RES80	83	3.60
REN90	46	1.80	5	RES90	83	3.60
REN100	46	1.80	5	RES100	83	3.60
REN110	109	4.00	1	RES110	183	7.00
REN125	109	4.00	1	RES125	183	7.00
REN150	109	4.00	1	RES150	183	7.00
REN175	109	4.00	1	RES175	183	7.00
REN200	109	4.00	1	RES200	183	7.00
REN225	266	7.20	1	RES225	373	14.00
REN250	266	7.20	1	RES250	373	14.00
REN300	266	7.20	1	RES300	373	14.00
REN350	266	7.20	1	RES350	373	14.00
REN400	266	7.20	1	RES400	373	14.00
REN450	389	11.00	1	RES450	573	20.00
REN500	389	11.00	1	RES500	573	20.00
REN600	389	11.00	1	RES600	573	20.00

BUSS SUPER-LAG RENEWAL FUSE LINKS



3 to 60 Amperes



70 to 600 Amperes

Super-Lag design gives BUSS Links a long time-lag that reduces number of blows on starting currents or other harmless overloads.

Give better protection because they permit fuseing nearer to load.

Come in one piece in all sizes. This makes renewal handy and prevents poor contact developing while fuse is in use.

Packed in small quantity in sealed boxes for convenience and to prevent dust, moisture or oxidation from affecting them.

Interchangeable with all makes of standard fuse links.

250-Volt Fuses				600-Volt Fuses		
Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton	Symbol and Amperes	Wt. Lbs. Per 100	Price Each
LKN3	.25	$0.02	20	LKS3	1	$0.05
LKN6	.25	.02	20	LKS6	1	.05
LKN10	.25	.02	20	LKS10	1	.05
LKN15	.25	.02	20	LKS15	1	.05
LKN20	.25	.02	20	LKS20	1	.05
LKN25	.25	.02	20	LKS25	1	.05
LKN30	.25	.02	20	LKS30	1	.05
LKN35	1	.04	20	LKS35	3	.08
LKN40	1	.04	20	LKS40	3	.08
LKN45	1	.04	20	LKS45	3	.08
LKN50	1	.04	20	LKS50	3	.08
LKN60	1	.04	20	LKS60	3	.08
LKN70	2	.09	10	LKS70	5	.18
LKN80	2	.09	10	LKS80	5	.18
LKN90	2	.09	10	LKS90	5	.18
LKN100	2	.09	10	LKS100	5	.18
LKN110	5	.20	5	LKS110	14	.35
LKN125	5	.20	5	LKS125	14	.35
LKN150	5	.20	5	LKS150	14	.35
LKN175	5	.20	5	LKS175	14	.35
LKN200	5	.20	5	LKS200	14	.35
LKN225	11	.36	5	LKS225	29	.70
LKN250	11	.36	5	LKS250	29	.70
LKN300	11	.36	5	LKS300	29	.70
LKN350	11	.36	5	LKS350	29	.70
LKN400	11	.36	5	LKS400	29	.70
LKN450	16	.55	2	LKS450	37	1.00
LKN500	16	.55	2	LKS500	37	1.00
LKN600	16	.55	2	LKS600	37	1.00

BUSS Clear Window PLUG FUSES



Carry Underwriters' Laboratories inspected label.

Buss fuses have an extra large, clear window which makes it easy to see if fuse is blown.

Metal cap protects fuse against chipping that might cut fingers or weaken fuse. Buss fuses are shockproof — insulated with porcelain and mica like high voltage power lines. They will always fit in holder as there is no solder lump on outside to cause trouble.

Packed 5 in a colorful carton that carries complete information on why fuses blow and what to do when they do blow.



Symbol	Amp.	Wt. Lbs. Per 1000	Price Each	Symbol	Amp.	Wt. Lbs. Per 1000	Price Each
W1	1	65	**$0.08**	**W10**	10	65	**$0.07**
W3	3	65	**.08**	**W15**	15	65	**.07**
W5	5	65	**.08**	**W20**	20	65	**.07**
W6	6	65	**.08**	**W25**	25	65	**.07**
W8	8	65	**.08**	**W30**	30	65	**.07**

15 to 30 AMP. FUSETRON dual-element Plug Fuses



15 ampere Fusetron dual-element fuses provide safe protection. They won't blow on motor-starting current or any current which lasts only a short time, because of their thermal element, yet they protect on dangerous overloads or short-circuits.

20 and 25 amp. sizes for use on appliance circuits or mains give the same kind of protection against useless blows. Carry Underwriters' Laboratories inspected label. For voltages up to 125. Packed 4 in a colorful carton.

Amp.	Symbol	Price	Amp.	Symbol	Price
15	T15	**$0.10**	25	T25	**$0.10**
20	T20	**.10**	30	T30	**.10**

Packed 4 in a box.

BUSS –TYPE S– FUSTATS

15 TO 30 AMP.—FOR CIRCUIT PROTECTION

Operates like Fusetron dual-element Plug Fuses
Non-tamperable (Type S) Base



Fustat



Adapter

The Fustat is Bussmann's dual element fuse with type "S" base. It has a fuse link and a thermal cutout. Makes safe protection remain safe. Stops loss of money on needless "blown-fuse" service calls. Stops use of pennies or slugs; practically impossible to bridge with tinfoil, wire or any other material. A 20, 25, or 30 ampere size will not fit in a 15-ampere receptacle or adapter. Can be used in Edison base receptacles by use of adapter. Adapters not included with Fustats, must be ordered separately. Listed by Underwriter's Laboratories as Type S fuses, in 15 to 30 amp. sizes. For circuit protection on voltages up to 125.

Amp.	FUSTAT Symbol	FUSTAT Price	ADAPTER Symbol	ADAPTER Price
15	S15	**$0.10**	SA15	**$0.07½**
20	S20	**.10**	SA20	**.07½**
25	S25	**.10**	SA30	**.07½**
30	S30	**.10**		

0 to 14 AMPERE BUSS FUSTATS

To Protect Against Burned-Out Motors and Apparatus of Voltages up to 125



Fustat **Adapter**

Protect motors against burnout from such things as dry bearings, overload, etc. Prevent costly repair bills.

For size to use, get ampere rating of motor or apparatus from name plate, and install a Fustat of a size nearest to that figure. Then if device is in danger of burnout, the Fustat will open. Also protects like a fuse against short-circuit.

Have non-tamperable base — which prevents anyone replacing them with a penny or readily bridging them — and prevents the use of sizes too large to protect.

Fustats fit all regular plug fuse holders through the use of an inexpensive adapter which locks in place.

Carry Underwriters' Laboratories Label and have the same degree of approval for motor-running protection as the most expensive devices made.

Packed 4 in a carton, carrying complete instructions.

Amp.	FUSTAT Symbol	FUSTAT Price	ADAPTER Symbol	ADAPTER Price
1	S1	**$0.20**	SA1	**$0.07½**
1¼	S1¼	**.20**	SA1¼	**.07½**
1 6/10	S1 6/10	**.20**	SA1 6/10	**.07½**
2	S2	**.20**	SA2	**.07½**
2½	S2½	**.20**	SA2½	**.07½**
3 2/10	S3 2/10	**.20**	SA3 2/10	**.07½**
4	S4	**.20**	SA4	**.07½**
5	S5	**.20**	SA5	**.07½**
6¼	S6¼	**.20**	SA6¼	**.07½**
8	S8	**.20**	SA8	**.07½**
10	S10	**.20**	SA10	**.07½**
12	S12	**.20**	SA15	**.07½**
14	S14	**.20**	SA15	**.07½**

Many other sizes from 3/10 to 9 amperes can be obtained. Adapters not included with Fustats — must be ordered separately.

0 to 14 AMP. FUSETRON dual-element PLUG FUSES



Fusetron fuses, like Fustats, can be used to protect motors or apparatus against burnout. Have Edison base — hence insurance and inspection authorities and Underwriters' Laboratories do not recommend their use because all protection is lost if Fusetron or ordinary fuses of too large a size are used. Fustats, because of their non-tamperable feature, are recommended for this work.

Amp.	Symbol	Price	Amp.	Symbol	Price
1	T1	**$0.20**	5	T5	**$0.20**
1¼	T1¼	**.20**	6¼	T6¼	**.20**
1 6/10	T1 6/10	**.20**	8	T8	**.20**
2	T2	**.20**	10	T10	**.20**
2½	T2½	**.20**	12	T12	**.20**
3 2/10	T3 2/10	**.20**	14	T14	**.20**
4	T4	**.20**	-----	-------	-------

Packed 4 in a carton, weight 7.7 lbs. per 100.

FUSETRON dual-element FUSES
250 AND 600 VOLT



Made to fit ordinary fuse holders. A Fusetron dual-element fuse has a fuse link element to protect against short-circuits and a thermal cutout element to protect against overloads. It has tremendous time-lag and much less electrical resistance.

For all types of circuits or feeders (motor as well as lighting, etc.) they are highly desirable. Their long time-lag prevents useless shutdowns caused by ordinary fuses or breakers opening on motor starting currents or other harmless overloads. They will hold even if all motors on circuit start at one time — yet they protect against short-circuit with all the speed of a fuse.

Their lower resistance means that switches and panelboards will operate at a much cooler temperature than with other fuses. This prevents damage and wipes out needless blowing of fuses so often caused by excessive heating.

Fusetron dual-element fuses carry Underwriters' Laboratories label and are approved for both motor-running and circuit protection.

250 Volt				600 Volt		
Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton	Symbol and Amperes	Wt. Lbs. Per 100	Price Each
FRN 1/10	3½	$0.25	10	FRS 1/10	14	$0.65
FRN 15/100	3½	.25	10	FRS 15/100	14	.65
FRN 2/10	3½	.25	10	FRS 2/10	14	.65
FRN 3/10	3½	.25	10	FRS 3/10	14	.65
FRN 4/10	3½	.25	10	FRS 4/10	14	.65
FRN 1/2	3½	.25	10	FRS 1/2	14	.65
FRN 6/10	3½	.25	10	FRS 6/10	14	.65
FRN 8/10	3½	.25	10	FRS 8/10	14	.65
FRN 1	3½	.25	10	FRS 1	14	.65
FRN 1 1/8	3½	.25	10	FRS 1 1/8	14	.65
FRN 1 1/4	3½	.25	10	FRS 1 1/4	14	.65
FRN 1 4/10	3½	.25	10	FRS 1 4/10	14	.65
FRN 1 6/10	3½	.25	10	FRS 1 6/10	14	.65
FRN 1 8/10	3½	.25	10	FRS 1 8/10	14	.65
FRN 2	3½	.25	10	FRS 2	14	.65
FRN 2 1/4	3½	.25	10	FRS 2 1/4	14	.65
FRN 2 1/2	3½	.25	10	FRS 2 1/2	14	.65
FRN 2 8/10	3½	.25	10	FRS 2 8/10	14	.65
FRN 3 2/10	3½	.25	10	FRS 3 2/10	14	.65
FRN 3 1/2	3½	.25	10	FRS 3 1/2	14	.65
FRN 4	3½	.25	10	FRS 4	14	.65
FRN 4 1/2	3½	.25	10	FRS 4 1/2	14	.65
FRN 5	3½	.25	10	FRS 5	14	.65
FRN 5 6/10	3½	.25	10	FRS 5 6/10	14	.65
FRN 6 1/4	3½	.25	10	FRS 6 1/4	14	.65
FRN 7	3½	.25	10	FRS 7	14	.65
FRN 8	3½	.25	10	FRS 8	14	.65
FRN 9	3½	.25	10	FRS 9	14	.65
FRN 10	3½	.25	10	FRS 10	14	.65
FRN 12	5	.25	10	FRS 12	16	.65
FRN 15	5	.25	10	FRS 15	16	.65
FRN 17 1/2	5	.25	10	FRS 17 1/2	16	.65
FRN 20	5	.25	10	FRS 20	16	.65
FRN 25	5	.30	10	FRS 25	16	.75
FRN 30	5	.30	10	FRS 30	16	.75
FRN 35	12	.60	10	FRS 35	26	1.35
FRN 40	12	.60	10	FRS 40	26	1.35
FRN 45	12	.60	10	FRS 45	26	1.35
FRN 50	12	.60	10	FRS 50	26	1.35
FRN 60	12	.60	10	FRS 60	26	1.35
FRN 70	35	1.45	5	FRS 70	56	2.75
FRN 80	35	1.45	5	FRS 80	56	2.75
FRN 90	35	1.45	5	FRS 90	56	2.75
FRN 100	35	1.45	5	FRS 100	56	2.75
FRN 110	88	3.10	1	FRS 110	125	5.50
FRN 125	88	3.10	1	FRS 125	125	5.50
FRN 150	88	3.10	1	FRS 150	125	5.50

FUSETRON dual-element FUSES
250 AND 600 VOLT

250 Volt				600 Volt		
Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton	Symbol and Amperes	Wt. Lbs. Per 100	Price Each
FRN 175	88	3.10	1	FRS 175	125	5.50
FRN 200	88	3.10	1	FRS 200	125	5.50
FRN 225	182	5.70	1	FRS 225	305	10.50
FRN 250	182	5.70	1	FRS 250	305	10.50
FRN 300	182	5.70	1	FRS 300	305	10.50
FRN 350	182	5.70	1	FRS 350	305	10.50
FRN 400	182	5.70	1	FRS 400	305	10.50
FRN 450	304	8.50	1	FRS 450	480	15.00
FRN 500	304	8.50	1	FRS 500	480	15.00
FRN 600	304	8.50	1	FRS 600	480	15.00

TESTED FUSE WIRE



Standard Winding

¼ Amp. .....1 Oz. Spool in Box
½ Amp. .....2 Oz. Spool in Box
¾ to 3 Amp. 2—2½ Lb. Spools in Can
5 to 50 Amp. .....1 Lb. Spool in Can
60 to 100 Amp. .....5 Lb. Spool in Can

Cat. No.	Capacity Amperes	Std.Lgth. Inches	Diam. Mils	Feet Per Lb.	Price Per Lb.
3501	¼	1½	5	10800	$100.00
3502	½	1½	10	2700	10.00
3504	1	1½	17	950	4.00
3506	2	1½	25	430	3.50
3507	3	1½	27	370	3.00
3509	5	2	35	220	2.25
3510	6	2	38	185	2.25
3514	10	2	58	80	2.00
3517	15	3	70	52	2.00
3520	20	4	85	36	1.50
3521	25	4	90	32	1.50
3522	30	4	100	26	1.50
3524	40	4	120	18	1.50
3526	50	4	145	12.5	1.50
3527	60	5	160	10.3	1.50
3528	70	5	175	9	1.50
3529	75	5	180	8.3	1.50
3530	80	5	190	7.5	1.50
3531	90	5	200	6.7	1.50
3532	100	5	220	5.5	1.50

TESTED FUSE RIBBON

Standard Winding

100 to 150 Amp.
2—2½ Lb. Coils in Can
175 to 500 Amp.
5 Lb. Coil in Can
600 Amp.
10 Lb. Coil in Wrapper

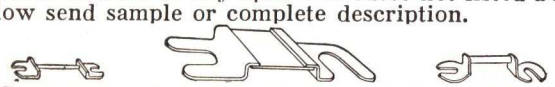


Cat. No.	Capacity Amperes	Std.Lgth. Inches	Size Inches	Feet Per Lb.	Price Per Lb.
3537	100	4	.44x.094	5.2	$1.50
3539	125	4	.50x.094	4.4	1.50
3540	150	4	.57x.094	4	1.50
3541	175	4	.64x.094	3.5	1.50
3543	200	4	.875x.094	2.6	1.50
3545	250	4½	1x.110	1.9	1.50
3547	300	4½	1x.150	1.4	1.50
3549	400	4½	1x.20	1.1	1.50
3551	500	4½	1.25x.20	.85	1.50
3553	600	4½	1.50x.20	.70	1.50

Standard package, 25 pounds, assorted.

BUSS OPEN LINK FUSES

Buss open link fuses can be obtained with many other styles of terminals and in larger capacities. When in need of any open link fuses not listed below send sample or complete description.



Terminal OD — Terminal OL, OS, ON, or OW — Terminal OH or OJ

Set-Up Charge, $1.50 for each size and type fuse ordered on each shipment.

Amperes	Standard Terminal Type	Slot In.	Width In.	Old No.	Other Terminal	Price Each
1 to 30	OD	5/32	3/8	1	OH	$0.04
35 to 60	OH	3/16	9/16	3	OJ	.05
65 to 100	OJ	1/4	11/16	5	....	.08
110 to 200	OL	3/8	3/4	7	OS	.13
225 to 400	OS	7/16	1 1/32	16	ON	.22
450 to 600	ON	1/2	1 3/8	10	OS	.40
650 to 1000	OW	5/8	2 1/16	28	ON	.80

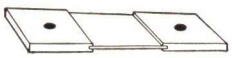
In ordering, be sure to specify exact amperage and length desired. By length is meant the center to center dimension of the slots in the terminals. This dimension will be indicated by one of symbols shown alongside, this symbol immediately following the terminal symbol.

1	inch A	3	inch N
1 1/4	inch C	3 1/2	inch R
1 1/2	inch D	4	inch S
1 3/4	inch F	5	inch U
2	inch H	6	inch X
2 1/4	inch J	7	inch Y
2 1/2	inch L	8	inch Z

Unless otherwise specified, standard terminals as above listed will be furnished. The terminals listed under heading "Other Terminal" can be obtained if desired without additional cost.

Slots are slightly larger than dimensions given so that bolts of such sizes will fit the slot. Terminals are all copper.

LARGE OPEN LINK FUSES

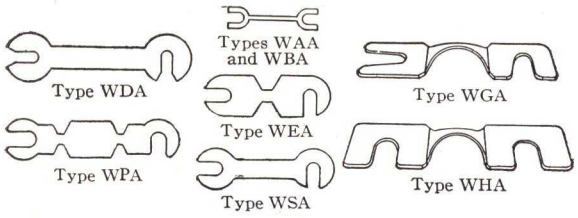


Terminals of cold rolled copper — entirely flat, one edge being slotted to receive the fuse strip.

When ordering, specify —
ampere rating desired,
width, length and thickness of terminals,
size of hole desired,
center to center dimension of terminal hole.

If more than one hole in each terminal is desired, a sketch of the fuse must be submitted in addition to the information above requested.

STAMPED OPEN LINK FUSES



Types WGA and WHA usually made of copper. All other types usually made of zinc.

Type	Old No.	Center to Center In.	Maximum Width of Terminal Slot In.	Maximum Width of Terminal Portion In.	Usual Amperages	Price Each	Set-up Charge
WAA	A	1 1/4	3/16	3/8		$0.02	$1.50
WBA	B	1 5/8	3/16	15/32		.02	1.50
WSA	S	1 3/4	9/32	3/4	20 to 200	.025	2.50
WDA	D	2 1/16 to 2 5/8	1/4	7/8	30 to 200	.035	1.50
WPA	P	2 3/8	9/32	23/32	30 to 200	.035	1.50
WGA	G	2 1/8	7/16	1	35 to 750	.12	2.50
WHA	H	3	9/16	2	500 to 1500	.17	2.50
WEA	66A	1 9/16	1/4	3/4	75 or 125	.035	1.50

Set-Up Charge applies on each shipment on each size and type.

BUSS GLASS TUBE FUSES

For Auto, Radio and Instrument Protection



Put up 5 in a slide cover metal box. Users prefer the Buss Box because the lid will not pop open and spill fuses and because information on the box tells what to do when a fuse blows.

What must a good fuse do? — It must open — quickly when necessary to protect, but — it must not open — unless real trouble develops. A fuse that does not open promptly when it should — permits damage to occur. A fuse that opens before it should, causes needless inconvenience and expense.

To Prevent Crooked, Loose or Dirty Caps — Buss caps are locked in true position in manufacture and are held in place so securely that they will not turn or work loose. Each fuse is inspected and wiped clean before being packed.

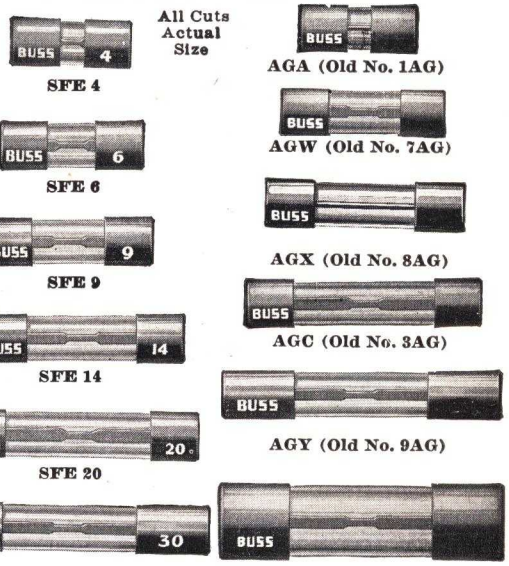
To Prevent Corrosion—Buss spent years of research and thousands of tests in the Laboratory—to produce a perfectly neutral soldering flux that will not corrode the most delicate fuse link.

To Prevent "Dead" Fuses—Each Buss Fuse is individually tested in an electrical circuit.

To Prevent Inaccuracy—Buss uses only the purest fuse metal obtainable. Then Buss "re-rolls" this fuse metal to an accuracy of .00015 inch.

NEW STANDARD FUSES — **OLD TYPE "AG" FUSES**

All Cuts Actual Size



Type	Dimens., Inches	Wt. Lbs. Per 100	Price Each
SFE 4 amp.	1/4 x 5/8	0.70	$0.05
SFE 6 amp.	1/4 x 3/4	0.71	.05
SFE 9 amp.	1/4 x 7/8	0.72	.04
SFE 14 amp.	1/4 x 1 1/16	0.77	.04
SFE 20 amp.	1/4 x 1 1/4	0.83	.035
SFE 30 amp.	1/4 x 1 7/16	1.05	.06
AGA (1AG) 1, 2 or 3 amp.	1/4 x 5/8	0.70	.07
AGA (1AG) 5, 6, 7 1/2, 10, 15, 20 or 30 amp.	1/4 x 5/8	0.70	.05
AGC (3AG) 1, 1 1/2, 2 or 3 amp.	1/4 x 1 1/4	0.83	.07
AGC (3AG) 5, 6, 7 1/2, 25 or 30 amp.	1/4 x 1 1/4	0.83	.05
AGC (3AG) 10 or 15 amp.	1/4 x 1 1/4	0.83	.04
AGU (5AG) 10, 20 or 30 amp.	13/32 x 1 1/2	2.00	.11
AGW (7AG) 6 amp.	1/4 x 7/8	0.72	.05
AGX (8AG) 20 amp.	1/4 x 1	0.82	.05
AGY (9AG) 50 amp.	1/4 x 1 7/16	1.10	.12

AGC (3AG) fuses 3 amp. and smaller can be used on 250 volt circuits.

BUSS GLASS TUBE FUSES

BUSS No. 100B PLAIN ASSORTMENT

Services Practically All Cars

Assortment will service cars in the popular field such as Ford, Chevrolet, Plymouth, Dodge, DeSoto, Chrysler, Hudson, Pontiac, Studebaker. It will also provide fuses for most other cars, trucks and auto radios. In addition to fuses in constant demand it contains AGA 3 fuses for use on clocks and AGC 30 fuses for which a demand still continues.

Assortment contains:

1 box AGA 3	3 boxes SFE 14
1 box SFE 4	9 boxes SFE 20
1 box SFE 6	2 boxes SFE 30
1 box SFE 9	2 boxes AGC 30

and condensed Car List printed on box.

Weight 0.83 lbs.

BUSS No. 200 DISPLAY STAND ASSORTMENT

of Fuses for Autos, Trucks and Auto Radios

Makes Fuse Selling MORE PROFITABLE

Supplies fuses needed to service 98 per cent of cars, trucks and auto radios — gives dealer a balanced stock of fast-moving fuses — and dealer won't miss sales for lack of right fuse.

Display stand makes sales dealer might otherwise miss. Reminds motorists of hazard and inconvenience of being without extra fuses in car.

Latest car and truck fuse list packed with each assortment shows fuse to use and where to look for fuse.

Assortment comes packed in BUSS display stand ready to start selling.

No. 200 Complete Service Assortment contains:

2 boxes (10 fuses) AGA 3		2 boxes (10 fuses) SFE 6	
1 box (5 fuses) AGA 6		3 boxes (15 fuses) SFE 9	
1 box (5 fuses) AGC 10		4 boxes (20 fuses) SFE 14	
4 boxes (20 fuses) AGC 30		16 boxes (80 fuses) SFE 20	
2 boxes (10 fuses) SFE 4		5 boxes (25 fuses) SFE 30	

200 fuses — 40 boxes — weight 3 lbs.

IDEAL FUSE PULLERS

Safe-T-Grip



Ideal Safe-T-Grip Fuse Pullers have notched edges which give a sure grip, eliminating any possibility of slipping. Eliminates the danger of pulling and replacing cartridge fuses by hand and the bending of fuse clips through improper removal. Also adapted for adjusting loose cutout clips, handling electrical parts, etc.

Size		Description	Price Each
34-001	Midget	For Small Fuses, ¼ to ½-inch in Diameter	**$0.40**
34-002	Pocket	0 to 200-Amp., 250-Volt, and 1 to 100-Amp., 600-Volt	**1.17**
34-003	Giant	100 to 600-Amp., 250-Volt and 60 to 400-Amp., 600-Volt	**3.52**

IDEAL COMBINATION TEST LIGHT AND FUSE PULLER



Two tools in one. Pocket size. Reinforced bakelite construction with test pins at handle ends. Test light protected. Adjusted to various spans by merely opening or closing the handles. 7-inch overall length. Detachable flexible extension leads, each 18 inches long.

Price, No. **34-005** Test-Lite .....each **$3.67**
Price, No. **34-006** 18-inch Flexible Leads .....each **.87**

IDEAL TEST-GLO



Tests motors, fuses, spark plugs, electrical and radio circuits from 80 to 550 volts, A.C.

Neon test lamp fully enclosed and protected in transparent rugged plastic housing. Adapted to high voltages by special resistor, self-contained in neat, streamlined jet black tube. A modern safety tool that every electrician, radio repair man, mechanic and maintenance man should have. Convenient chrome plated pencil clip makes the Test-Glo perfectly suited to vest pocket use.

Price, No. **35-001** Test-Glo.....each **$1.33**

IDEAL VOLTAGE TESTER



Designed for all around electrical testing. Tests continuity of circuits, 110 to 600 volts AC/DC, blown fuses, grounded side of line, grounded side of motor or appliance, excessive leakage to ground, frequency (25 or 60 cycle), DC polarity. It incorporates both a solenoid voltage indicator and a neon test lamp. Provides double protection — either will function in the event the other fails. The test prods and leads are amply insulated for maximum protection. A protecting flange around the end of the handles stops the fingers from slipping off and touching the prods. Sturdily constructed and encased in an attractive plastic case. Has easy-to-read scale calibration from 110 to 600 volts. Overall length 6 inches; leads are 2 feet long. Test prod handles 4 inches long; test prods 2 inches long.

Price, No. **61-001** Voltage Tester, complete with carrying case.....each **$13.20**
No. **61-003** Tester without case.....each **$12.00**

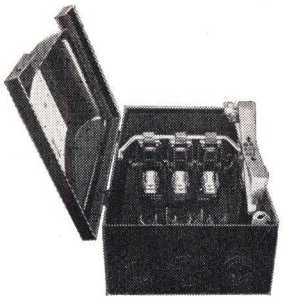
BULLDOG SAFETY SWITCHES

VACU-BREAK—MASTER TYPE A SWITCHES

30 Amp to 200 Amp Front Operated*

Solderless "Wire Grips"—Quick-Make and Quick-Break—Safety Interlock





Fusible—Single Throw—114000 Series

Cat. No.	Amps.	Poles	Volts A.C.	Volts D.C.	H.P. Rating A.C.	H.P. Rating D.C.	Price Each
114221S	30	2	230	250	2	5	$16.00
114221	30	2	230	250	2	5	20.00
114222	60	2	230	250	5	10	21.00
114223	100	2	230	250	10	15	33.00
114224	200	2	230	250	15	30	54.00
14225	400	2	230	250	30	50	122.00
14226	600	2	230	250	....	....	195.00
14227	800	2	230	250	....	....	298.00
14228	1200	2	230	250	....	....	413.00
114261A	30	2	575	.....	5	....	26.00
114262	60	2	575	.....	10	....	28.00
114263	100	2	575	.....	15	....	43.00
114264	200	2	575	.....	30	....	64.00
14265	400	2	575	.....	....	....	149.00
14266	600	2	575	.....	....	....	236.00
14267	800	2	575	.....	....	....	365.00
14268	1200	2	575	.....	....	....	514.00
114321S	30	3	230	.....	3	....	20.00
114321	30	3	230	.....	3	....	24.00
114322	60	3	230	.....	7½	....	28.00
114323	100	3	230	.....	15	....	43.00
114324	200	3	230	.....	30	....	64.00
14325	400	3	230	.....	50	....	139.00
14326	600	3	230	.....	....	....	238.00
14327	800	3	230	.....	....	....	406.00
14328	1200	3	230	.....	....	....	521.00
114351A	30	3	575	.....	7½	....	31.00
114352	60	3	575	.....	20	....	33.00
114353	100	3	575	.....	30	....	49.00
114354	200	3	575	.....	50	....	79.00
14355	400	3	575	.....	....	....	162.00
14356	600	3	575	.....	....	....	270.00
14357	800	3	575	.....	....	....	473.00
14358	1200	3	575	.....	....	....	622.00
114421	30	4	230	.....	3	....	28.00
114422	60	4	230	.....	10	....	34.00
114423	100	4	230	.....	20	....	56.00
114424	200	4	230	.....	30	....	100.00
14425	400	4	230	.....	50	....	190.00
14426	600	4	230	.....	....	....	327.00
14427	800	4	230	.....	....	....	614.00
14428	1200	4	230	.....	....	....	750.00
114451	30	4	575	.....	7½	....	38.00
114452	60	4	575	.....	20	....	41.00
114453	100	4	575	.....	30	....	65.00
114454	200	4	575	.....	50	....	110.00
14455	400	4	575	.....	....	....	210.00
14456	600	4	575	.....	....	....	341.00
14457	800	4	575	.....	....	....	625.00
14458	1200	4	575	.....	....	....	877.00

*400 Amp. and over Switches are side operated.

BULLDOG SAFETY SWITCHES

VACU-BREAK—MASTER TYPE A SWITCHES

30 Amp to 200 Amp Front Operated*

Solderless "Wire Grips"—Quick-Make and Quick-Break—Safety Interlock

Switched Neutral—Single Throw—115000 Series

Cat. No.	Amps.	Poles	Volts A.C.	Volts D.C.	H.P. Rating A.C.	H.P. Rating D.C.	Price Each
115321S	30	3 SwN	230	125–250	3	....	$20.00
115321	30	3 SwN	230	125–250	3	....	24.00
115322	60	3 SwN	230	125–250	7½	....	28.00
115323	100	3 SwN	230	125–250	15	....	43.00
115324	200	3 SwN	230	125–250	30	....	64.00
15325	400	3 SwN	230	125–250	50	....	139.00
15326	600	3 SwN	230	125–250	....	....	238.00
15327	800	3 SwN	230	125–250	....	....	406.00
15328	1200	3 SwN	230	125–250	....	....	521.00

Solid Neutral—Single Throw—116000 Series

116321S	30	3 SN	230	125–250	3	....	18.00
116321	30	3 SN	230	125–250	3	....	21.00
116322	60	3 SN	230	125–250	7½	....	24.00
116323	100	3 SN	230	125–250	15	....	38.00
116324	200	3 SN	230	125–250	30	....	59.00
16325	400	3 SN	230	125–250	50	....	135.00
16326	600	3 SN	230	125–250	....	....	217.00
16327	800	3 SN	230	125–250	....	....	325.00
16328	1200	3 SN	230	125–250	....	....	460.00
116421	30	4 SN	230	.....	3	....	26.00
116422	60	4 SN	230	.....	7½	....	33.00
116423	100	4 SN	230	.....	15	....	51.00
116424	200	4 SN	230	.....	30	....	75.00
16425	400	4 SN	230	.....	50	....	156.00
16426	600	4 SN	230	.....	....	....	260.00
16427	800	4 SN	230	.....	....	....	584.00
16428	1200	4 SN	230	.....	....	....	716.00

Not Fusible—Single Throw—117000 Series

117221S	30	2	230	250	3	5	15.00
117222	60	2	230	250	7½	10	20.00
117223	100	2	230	250	15	20	32.00
117224	200	2	230	250	25	30	45.00
17225	400	2	230	250	30	50	85.00
17226	600	2	230	250	....	....	167.00
17227	800	2	230	250	....	....	264.00
17228	1200	2	230	250	....	....	359.00
117261	30	2	575	.....	7½	....	18.00
117262	60	2	575	.....	15	....	23.00
117263	100	2	575	.....	25	....	38.00
117264	200	2	575	.....	50	....	48.00
17265	400	2	575	.....	....	....	122.00
17266	600	2	575	.....	....	....	176.00
117321S	30	3	230	.....	5	....	18.00
117351	30	3	575	.....	10	....	21.00
117352	60	3	575–230	.....	25–10	....	26.00
117353	100	3	575–230	.....	40–20	....	40.00
117354	200	3	575–230	.....	50–40	....	52.00
17355	400	3	575–230	.....	50	....	135.00
17356	600	3	575	.....	....	....	217.00
17357	800	3	575	.....	....	....	352.00
17358	1200	3	575	.....	....	....	473.00
117421	30	4	230	.....	10	....	26.00
117452	60	4	575–230	.....	25–15	....	34.00
117453	100	4	575–230	.....	40–25	....	61.00
117454	200	4	575–230	.....	50–50	....	95.00
17455	400	4	575	.....	50	....	176.00
17456	600	4	575	.....	....	....	306.00
17457	800	4	575	.....	....	....	454.00
17458	1200	4	575	.....	....	....	622.00

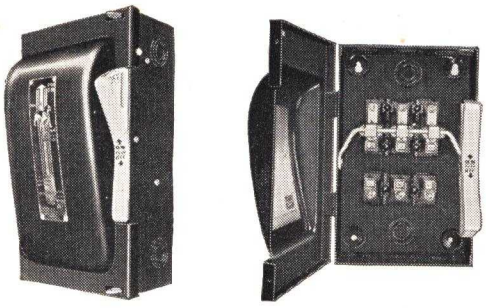
*400 Amp. and over Switches are side operated.

BULLDOG SAFETY SWITCHES

VACU-BREAK STANDARD TYPE C SWITCHES

30 Amp. to 200 Amp. Front Operated*

Solderless "Wire Grips"—Quick-Make and Quick-Break—Non-Interlocking



Black enamel is standard finish.

Fusible—Single Throw—224000 Series

Cat. No.	Amps.	Poles	Volts A.C.	Volts D.C.	H.P. Rating A.C.	H.P. Rating D.C.	Price Each
224221S	30	2	230	250	2	5	$9.00
224221PM	30	2	230	250	2	5	9.00
224221	30	2	230	250	2	5	14.00
224222	60	2	230	250	5	10	16.00
224223	100	2	230	250	10	15	25.00
224224	200	2	230	250	15	30	38.00
24225	400	2	230	250	30	50	96.00
24226	600	2	230	250	....	....	190.00
224321S	30	3	230	.....	3	....	11.00
224321PM	30	3	230	.....	3	....	11.00
224321	30	3	230	.....	3	....	18.00
224322	60	3	230	.....	7½	....	20.00
224323	100	3	230	.....	15	....	31.00
224324	200	3	230	.....	30	....	53.00
24325	400	3	230	.....	50	....	111.00
24326	600	3	230	.....	....	....	219.00
224351A	30	3	575	.....	7½	....	19.00
224352	60	3	575	.....	20	....	23.00
224353	100	3	575	.....	30	....	42.00
224354	200	3	575	.....	50	....	63.00
224421	30	4	230	.....	3	....	21.00
224422	60	4	230	.....	10	....	29.00
224423	100	4	230	.....	20	....	47.00
224424	200	4	230	.....	30	....	85.00
24425	400	4	230	.....	50	....	158.00
24426	600	4	230	.....	....	....	290.00
224451	30	4	575	.....	7½	....	31.00
224452	60	4	575	.....	20	....	35.00
224453	100	4	575	.....	30	....	63.00
224454	200	4	575	.....	50	....	102.00

*400 Amp. and over Switches are side operated.

BULLDOG SAFETY SWITCHES

VACU-BREAK STANDARD TYPE C SWITCHES

30 Amp. to 200 Amp. Front Operated*

Solderless "Wire Grips"—Quick-Make and Quick-Break—Non-Interlocking

Switched Neutral—Single Throw—225000 Series

Cat. No.	Amps.	Poles	Volts A.C.	Volts D.C.	H.P. Rating A.C.	H.P. Rating D.C.	Price Each
225321S	30	3 SwN	230	125–250	3	....	$11.00
225321PM	30	3 SwN	230	125–250	3	....	11.00
225321	30	3 SwN	230	125–250	3	....	18.00
225322	60	3 SwN	230	125–250	7½	....	20.00
225323	100	3 SwN	230	125–250	15	....	31.00
225324	200	3 SwN	230	125–250	30	....	53.00
25325	400	3 SwN	230	125–250	50	....	111.00
25326	600	3 SwN	230	125–250	....	....	219.00

Solid Neutral—Single Throw—226000 Series

226321S	30	3 SN	230	125–250	3	....	10.00
226321PM	30	3 SN	230	125–250	3	....	10.00
226321	30	3 SN	230	125–250	3	....	12.00
226322	60	3 SN	230	125–250	7½	....	17.00
226322PT	60	3 SN	230	125–250	7½	....	17.00
226322P	60	3 SN	230	125–250	7½	....	17.00
226323	100	3 SN	230	125–250	15	....	26.00
226323PT	100	3 SN	230	125–250	15	....	26.00
226323P	100	3 SN	230	125–250	15	....	26.00
226324	200	3 SN	230	125–250	30	....	48.00
26325	400	3 SN	230	125–250	50	....	105.00
26326	600	3 SN	230	125–250	....	....	204.00
226421	30	4 SN	230	.....	3	....	14.00
226422	60	4 SN	230	.....	7½	....	23.00
226423	100	4 SN	230	.....	15	....	36.00
226424	200	4 SN	230	.....	30	....	63.00
26425	400	4 SN	230	.....	50	....	135.00
26426	600	4 SN	230	.....	....	....	242.00

Not Fusible—Single Throw—227000 Series

227221S	30	2	230	250	3	5	8.00
227221PM	30	2	230	250	3	5	8.00
227222	60	2	230	250	7½	10	14.00
227223	100	2	230	250	15	20	24.00
227224	200	2	230	250	25	30	32.00
27225	400	2	230	250	30	50	80.00
27226	600	2	230	250	....	....	150.00
227321S	30	3	230	.....	5	....	10.00
227322	60	3	230	.....	10	....	18.00
227323	100	3	230	.....	20	....	27.00
227324	200	3	230	.....	40	....	44.00
27325	400	3	230	.....	50	....	96.00
27326	600	3	230	.....	....	....	196.00
227351	30	3	575	.....	10	....	14.00
227352	60	3	575	.....	25	....	19.00
227353	100	3	575	.....	40	....	35.00
227354	200	3	575	.....	50	....	48.00
227421	30	4	230	.....	10	....	19.00
227422	60	4	230	.....	15	....	24.00
227423	100	4	230	.....	25	....	45.00
227424	200	4	230	.....	50	....	80.00
27425	400	4	230	.....	50	....	137.00
27426	600	4	230	.....	....	....	240.00
227451	30	4	575	.....	25	....	22.00
227452	60	4	575	.....	25	....	31.00
227453	100	4	575	.....	40	....	57.00
227454	200	4	575	.....	50	....	82.00

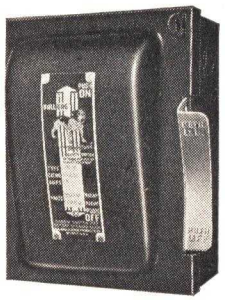
*400 Amp. and over Switches are side operated.

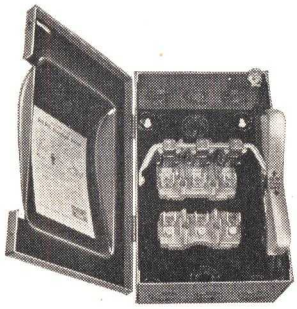
BULLDOG SAFETY SWITCHES

VACU-BREAK—JUNIOR TYPE D SWITCHES

30 Amp. to 200 Amp. — Front Operated

Solderless "Wire Grips"—Non-Interlocking





Fusible — Single Throw — 334000 Series

Cat. No.	Amps.	Poles	Volts A.C.	Volts D.C.	Fuse Conn.	Price Each
334211S	30	2	125–250		2-Plug	$4.00
334211PM	30	2	125–250		2-Plug	4.00
334221S	30	2	230	250	2-Cart.	4.00
334221PM	30	2	230	250	2-Cart.	4.00
334222	60	2	230	250	2-Cart.	9.50
334223	100	2	230	250	2-Cart.	19.00
334224	200	2	230	250	2-Cart.	35.00
334311S	30	3	115	.....	3-Plug	7.50
334311PM	30	3	115	.....	3-Plug	7.50
334321S	30	3	230	.....	3-Cart.	7.50
334321PM	30	3	230	.....	3-Cart.	7.50
334322	60	3	230	.....	3-Cart.	12.00
334323	100	3	230	.....	3-Cart.	22.00
334324	200	3	230	.....	3-Cart.	48.00
334421	30	4	230	.....	4-Cart.	11.00
334422	60	4	230	.....	4-Cart.	21.00
224423	100	4	230	.....	4-Cart.	47.00
224424	200	4	230	.....	4-Cart.	85.00

Switched Neutral—Single Throw—335000 Series

335311S	30	3 SwN	115	.....	2-Plug	7.50
335311PM	30	3 SwN	115	.....	2-Plug	7.50
335321S	30	3 SwN	230	.....	2-Cart.	7.50
335321PM	30	3 SwN	230	.....	2-Cart.	7.50
335322	60	3 SwN	230	.....	2-Cart.	12.00
335323	100	3 SwN	230	.....	2-Cart.	22.00
335324	200	3 SwN	230	.....	2-Cart.	48.00

Solid Neutral — Single Throw — 336000 Series

336211S	30	2 SN	125	.....	1-Plug	3.00
336211PM	30	2 SN	125	.....	1-Plug	3.00
336221S	30	2 SN	.....	250	1-Cart.	3.00
336221PM	30	2 SN	.....	250	1-Cart.	3.00
336311S	30	3 SN	125–250		2-Plug	5.00
336311PM	30	3 SN	125–250		2-Plug	5.00
336321S	30	3 SN	125–250		2-Cart.	5.00
336221PM	30	3 SN	125–250		2-Cart.	5.00
336322	60	3 SN	125–250		2-Cart.	10.00
336322PT	60	3 SN	125–250		2-Cart.	10.00
336322P	60	3 SN	125–250		2-Cart.	10.00
336323	100	3 SN	125–250		2-Cart.	20.00
336323PT	100	3 SN	125–250		2-Cart.	20.00
336323P	100	3 SN	125–250		2-Cart.	20.00
336324	200	3 SN	125–250		2-Cart.	44.00
336421	30	4 SN	230	.....	3-Cart.	10.00
336422	60	4 SN	230	.....	3-Cart.	20.00
336423	100	4 SN	230	.....	3-Cart.	33.00
336424	200	4 SN	230	.....	3-Cart.	59.00

BULLDOG SAFETY SWITCHES

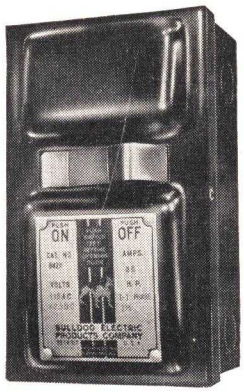
VACU-BREAK—JUNIOR TYPE D SWITCHES

Not Fusible — Single Throw — 337000 Series

Cat. No.	Amps.	Poles	Volts A.C.	Volts D.C.	Price Each
337221S	30	2	230	250	$3.00
337221PM	30	2	230	250	3.00
337222	60	2	230	250	9.00
337223	100	2	230	250	18.00
337224	200	2	230	250	26.00
337321S	30	3	230	.....	5.50
337321PM	30	3	230	.....	5.50
337322	60	3	230	.....	11.00
337323	100	3	230	.....	20.00
337324	200	3	230	.....	35.00
337421	30	4	230	.....	10.00
337422	60	4	230	.....	19.00
337423	100	4	230	.....	45.00
337424	200	4	230	.....	80.00

BULLDOG FRONT OPERATED SAFETY SWITCHES

ROCKER TYPE—30 AMPERE



Cabinets

Cabinets small enough to be practical in limited areas — but large enough to provide generous wiring space. Ample number of knockouts provided to meet any wiring need. Black enamel finish inside and out — for finer appearance.

Applications

Oil burners, pumps, refrigeration equipment, air conditioning units, printing presses, drill presses and other driven equipment.

Also suitable for use as Service Equipment.

Box Dimensions (O.D.): 7½ inches high, 4½ inches wide, 3½ inches deep, including handle.

Conduit Knockouts: Top—One ½-¾-1; two ½; Bottom—One ½-¾-1, two ½; Back—One ½-¾-1, one ½; Each Side—One ½-¾, one ½.

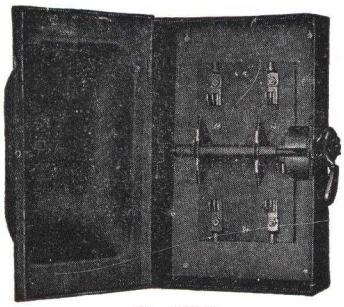
Fusible

Cat. No.	Poles	Blades	Fuse Conn's.	Carton	Wt. Lbs. Each	List Price
			1 HP-115 AC, 2 HP-125 DC and 125-250			
83211*	2	2	2 Plug	5	4	$4.00
			2 HP-230 AC and 2 HP-250 DC			
83221	2	2	2 Cart.	5	4	4.00
			***Insulated Solid Neutral**			
			1 HP-115 AC, 1 Ph. and 1½ HP-125 DC			
84211	2	1	1 Plug	5	4	3.00
			1 HP-115 AC, 1 Ph., 2 HP-125 DC and 125-250			
84311	3	2	2 Plug	5	4	5.00
			2 HP-230 AC, 3 Phase			
84321	3	2	2 Cart.	5	4	5.00

*Equipped with separate box grounding screw.

BULLDOG SAFETY SWITCHES

TYPE A—DOUBLE THROW KNIFE BLADE SWITCH TYPE



No. 23222

Quick Make
Quick Break

Safety Interlocks
Black Enamel Finish

Solderless Wire Terminals Are Standard

Double Throw

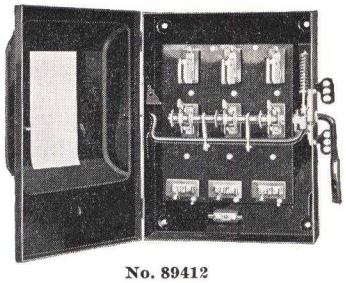
Amp.	Fusible Both Ends Cat. No.	Wt. Lbs. Each	List Price	Not Fusible Cat. No.	Wt. Lbs. Each	List Price
2 Pole 230 V. A.C.—250 V. D.C.						
30	**20221**	16	**$30.00**	†63221	14	**$18.00**
30–60	.....	....	.....	**23222**	21	**29.00**
60	**20222**	24	**34.00**	.....	....	.....
100	**20223**	80	**82.00**	**23223**	29	**43.00**
200	**20224**	118	**114.00**	**23224**	40	**57.00**
400	**20225**	178	**231.00**	**23225**	73	**162.00**
600	.....	....	.....	**23226**	103	**230.00**
3 Pole—230 V. A.C.						
30	**20321**	21	**$33.00**	†63321	17	**$22.00**
30–60	.....	....	.....	**23322**	25	**33.00**
60	**20322**	31	**59.00**	.....	....	.....
100	**20323**	100	**99.00**	**23323**	40	**53.00**
200	**20324**	135	**150.00**	**23324**	63	**83.00**
400	**20325**	225	**317.00**	**23325**	105	**218.00**
600	.....	....	.....	**23326**	123	**303.00**
4 Pole—230 V. A.C.						
30	**20421**	54	**$45.00**	.....	....	.....
30–60	.....	....	.....	**23422**	26	**$45.00**
60	**20422**	55	**73.00**	.....	....	.....
100	**20423**	118	**116.00**	**23423**	73	**94.00**
200	**20424**	180	**190.00**	**23424**	79	**130.00**
400	.....	....	.....	**23425**	128	**293.00**
2 Pole 575 V. A.C.—600 V. D.C.						
30	**20261**	35	**$61.00**	.....	....	.....
30–60	.....	....	.....	**23262**	31	**$27.00**
60	**20262**	39	**63.00**	.....	....	.....
100	**20263**	102	**109.00**	**23263**	55	**47.00**
200	**20264**	161	**132.00**	**23264**	80	**64.00**
400	.....	....	.....	**23265**	90	**183.00**
600	.....	....	.....	**23266**	110	**257.00**
3 Pole—575 V. A.C.						
30	**20351**	36	**$64.00**	.....	....	.....
30–60	.....	....	.....	**23352**	25	**$35.00**
60	**20352**	41	**66.00**	.....	....	.....
100	**20353**	112	**116.00**	**23353**	40	**57.00**
200	**20354**	165	**175.00**	**23354**	63	**88.00**
400	.....	....	.....	**23355**	105	**230.00**
600	.....	....	.....	**23356**	123	**333.00**
4 Pole—575 V. A.C.						
30	**20451**	56	**$96.00**	.....	....	.....
30–60	.....	....	.....	**23452**	26	**$50.00**
60	**20452**	68	**99.00**	.....	....	.....
100	**20453**	155	**172.00**	**23453**	73	**106.00**
200	**20454**	182	**222.00**	**23454**	79	**142.00**
400	.....	....	.....	**23455**	128	**318.00**

†Type C, non-interlocking.

SQUARE D SAFETY SWITCHES

TYPE A SAFETY SWITCHES

Fusible—Single Throw



No. 89412

Heavy-duty industrial type. 30-600 amp., quick-make and quick-break; interlocked cover control. 800-1200 amp., quick-break only; cover not interlocked.

250 Volts D.C., 230 Volts A.C.

Cat. No.	Fused Poles	Blades	Poles	Neutral	H.P. Rating A.C.	H.P. Rating D.C.	Wt. Lbs.	Price Each
30 Amperes								
#88251	2	2	2	.....	2	5	17	**$16.00**
***86251**	2	2	2	.....	2	5	17	**20.00**
#88351	3	3	3	.....	3	....	20	**20.00**
***86351**	3	3	3	.....	3	....	20	**24.00**
#89311	3	2	2	.... S/N	3	....	17	**18.00**
***86451**	4	4	4	.....	3	....	24	**28.00**
#89411	4	3	3	S/N	3	....	20	**26.00**
60 Amperes								
88252	2	2	2	.....	5	10	16	**21.00**
88352	3	3	3	.....	7½	....	20	**28.00**
89312	3	2	2	S/N	7½	....	17	**24.00**
88452	4	4	4	.....	10	....	24	**34.00**
89412	4	3	3	S/N	7½	....	20	**33.00**
100 Amperes								
88253	2	2	2	.....	10	15	25	**33.00**
88353	3	3	3	.....	15	....	38	**43.00**
89313	3	2	2	S/N	15	....	25	**38.00**
88453	4	4	4	.....	20	....	55	**56.00**
89413	4	3	3	S/N	15	....	38	**51.00**
200 Amperes								
88254	2	2	2	.....	15	30	56	**54.00**
88354	3	3	3	.....	30	....	63	**64.00**
89314	3	2	2	S/N	30	....	46	**59.00**
88454	4	4	4	.....	30	....	86	**100.00**
89414	4	3	3	S/N	30	....	63	**75.00**
400 Amperes								
88255	2	2	2	.....	30	50	90	**122.00**
88355	3	3	3	.....	50	....	135	**139.00**
89315	3	2	2	S/N	50	....	90	**135.00**
88455	4	4	4	.....	50	....	150	**190.00**
89415	4	3	3	S/N	50	....	135	**156.00**
600 Amperes								
88256	2	2	2	.....	....	....	155	**195.00**
88356	3	3	3	.....	....	....	240	**238.00**
89316	3	2	2	S/N	....	....	155	**217.00**
88456	4	4	4	.....	....	....	275	**327.00**
89416	4	3	3	S/N	....	....	240	**260.00**
800 Amperes—Double Lugs—Quick Break Only								
88257	2	2	2	.....	....	....	160	**298.00**
88357	3	3	3	.....	....	....	280	**406.00**
89317	3	2	2	S/N	....	....	160	**325.00**
88457	4	4	4	.....	....	....	347	**614.00**
89417	4	3	3	S/N	....	....	280	**584.00**

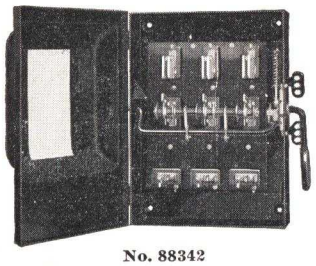
*60 ampere switches with 30 ampere fuse spacing and clips. #Front operated and has elevated removable base. Interlock is not keyed.

3-Wire Switching Neutral: these fusible switches can be furnished with unfused switching neutral by omitting the neutral fuse terminals and adding lugs for load connection to blade hinge post on neutral pole. Add "SWN" to regular catalog numbers. Prices same as for regular switches.

SQUARE D SAFETY SWITCHES

TYPE A SAFETY SWITCHES

Fusible—Single Throw



No. 88342

Heavy-duty industrial type. 30-600 amp., quick-make and quick-break; interlocked cover control. 800-1200 amp., quick-break only; cover not interlocked.

250 Volts D.C., 230 Volts A.C.

1200 Amperes—Double Lugs—Quick Break Only

Cat. No.	Poles	Blades	Fused Poles	Neutral	H.P. Rating A.C.	H.P. Rating D.C.	Wt. Lbs.	Price Each
88258	2	2	2	.....	....	....	238	$413.00
88358	3	3	3	.....	....	....	350	521.00
89318	3	2	2	S/N	....	....	238	460.00
88458	4	4	4	.....	....	....	590	750.00
89418	4	3	3	S/N	....	....	350	716.00

600 Volts D.C., 575 Volts A.C.

30 Amperes

#88261	2	2	2	.....	....	7½	34	26.00
#88341	3	3	3	.....	7½	....	25	31.00
†86341	3	3	3	.....	7½	....	25	32.00
*86441	4	4	4	.....	7½	....	32	38.00

60 Amperes

88262	2	2	2	.....	....	15	26	28.00
88342	3	3	3	.....	20	....	25	33.00
88442	4	4	4	.....	20	....	32	41.00

100 Amperes

88263	2	2	2	.....	....	25	44	43.00
88343	3	3	3	.....	30	....	41	49.00
88443	4	4	4	.....	40	....	45	65.00

200 Amperes

88264	2	2	2	.....	....	50	70	64.00
88344	3	3	3	.....	50	....	70	79.00
88444	4	4	4	.....	50	....	80	110.00

400 Amperes

88265	2	2	2	.....	....	....	....	149.00
88345	3	3	3	.....	....	....	....	162.00
88445	4	4	4	.....	....	....	....	210.00

600 Amperes

88266	2	2	2	.....	....	....	....	236.00
88346	3	3	3	.....	....	....	....	270.00
88446	4	4	4	.....	....	....	....	341.00

800 Amperes—Double Lugs—Quick Break Only

†88247	2	2	2	.....	....	....	....	365.00
88347	3	3	3	.....	....	....	....	473.00
88447	4	4	4	.....	....	....	....	625.00

1200 Amperes—Double Lugs—Quick Break Only

†88248	2	2	2	.....	....	....	....	514.00
88348	3	3	3	.....	....	....	....	622.00
88448	4	4	4	.....	....	....	....	877.00

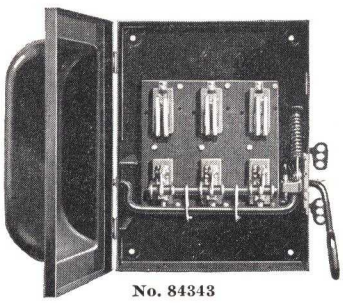
*60 ampere switches with 30 ampere fuse spacings and clips. †250 volts D.C., 575 volts A.C. only. #Front operated and has elevated removable base. Interlock is not keyed.

3-Wire Switching Neutral: these fusible switches can be furnished with unfused switching neutral by omitting the neutral fuse terminals and adding lugs for load connection to blade hinge post on neutral pole. Add "SWN" to regular catalog numbers. Prices same as for regular switches.

SQUARE D SAFETY SWITCHES

TYPE A SAFETY SWITCHES

Non-Fusible—Single Throw



No. 84343

Heavy duty industrial. 30-600 ampere switches quick-break, quick-make. 800-1200 ampere switches quick-break only, cover not interlocked. 600-575 volt equipped with arc suppressors. Interlocked cover; individual bases. Positive pressure fuse clips and jaws.

250 Volts D.C./230 Volts A.C.
No Arc Suppressors

Cat. No.	Amps.	Poles	Blades	H.P. Rating A.C.	H.P. Rating D.C.	Wt. Lbs.	Price Each
#84251	30	2	2	3	5	15	$15.00
#84351	30	3	3	5	....	20	18.00
81451	30	4	4	5	....	25	26.00
84252	60	2	2	7½	10	16	20.00
84253	100	2	2	15	15	23	32.00
84254	200	2	2	25	30	40	45.00
84255	400	2	2	50	50	78	85.00
†84256	600	2	2	....	....	120	167.00
†84257	800	2	2	....	....	135	264.00
†84258	1200	2	2	....	....	200	359.00

250-600 Volts D.C./230-575 V. A.C.
Arc Suppressors

#84261	30	2	2	....	7½	16	18.00
#84341	30	3	3	10	....	16	21.00
84262	60	2	2	....	15	16	23.00
84342	60	3	3	25	....	21	26.00
84442	60	4	4	25	....	29	34.00
84263	100	2	2	....	25	23	38.00
84343	100	3	3	40	....	29	40.00
84443	100	4	4	40	....	36	61.00
84264	200	2	2	....	50	40	49.00
84344	200	3	3	50	....	55	52.00
84444	200	4	4	50	....	90	95.00
84265	400	2	2	....	....	78	122.00
84345	400	3	3	....	....	102	135.00
84445	400	4	4	....	....	120	176.00
†84266	600	2	2	....	....	120	176.00
†84346	600	3	3	....	....	134	217.00
†84446	600	4	4	....	....	185	306.00
*†84247	800	2	2	....	....	135	264.00
†84347	800	3	3	....	....	170	352.00
†84447	800	4	4	....	....	205	454.00
*†84248	1200	2	2	....	....	200	359.00
†84348	1200	3	3	....	....	208	473.00
†84448	1200	4	4	....	....	255	622.00

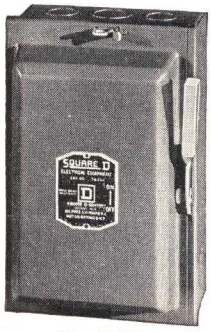
*250 volts D.C./575 volts A.C. only. #Front operated and has elevated removable base. Interlock is not keyed.

†Furnished with double lugs. Single lugs furnished on order.

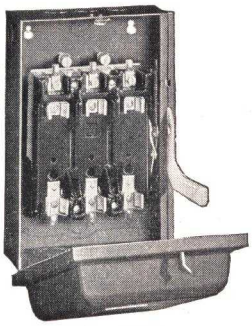
SQUARE D SAFETY SWITCHES

TYPE A SAFETY SWITCHES

Fusible and Not Fusible—Single Throw



No. 51261
Cover Closed



No. 56352
Cover Open

Compact heavy duty industrial. Front operated. Quick break, quick make. Double break blades; interlocked cover; elevated removable base. Positive pressure fuse clips and jaws.

Fusible—250 Volts D.C./230 Volts A.C.

Cat. No.	Amps.	Poles	Blades	Fused Poles	H.P. Rating A.C.	H.P. Rating D.C.	Wt. Lbs.	Price Each
56251	30	2	2	2	2	5	10	**$16.00**
56351	30	3	3	3	3	....	10	**20.00**
†**59311**	30	3	2	2	3	....	10	**18.00**
56252	60	2	2	2	5	10	16	**21.00**
56352	60	3	3	3	7½	....	16	**28.00**
†**59312**	60	3	2	2	7½	....	16	**24.00**
56253	100	2	2	2	10	15	35	**33.00**
56353	100	3	3	3	15	....	35	**43.00**
†**59313**	100	3	2	2	15	....	35	**38.00**
56254	200	2	2	2	15	30	50	**54.00**
56354	200	3	3	3	30	....	50	**64.00**
†**59314**	200	3	2	2	30	....	....	**59.00**

Fusible—600 Volts D.C./575 Volts A.C.

56261	30	2	2	2	....	7½	16	**26.00**
56341	30	3	3	3	7½	....	16	**31.00**
56262	60	2	2	2	....	15	20	**28.00**
56342	60	3	3	3	20	....	20	**33.00**
56263	100	2	2	2	....	25	35	**43.00**
56343	100	3	3	3	30	....	....	**49.00**
56264	200	2	2	2	....	50	....	**64.00**
56344	200	3	3	3	50	....	....	**79.00**

Not Fusible—250 Volts D.C./230 Volts A.C.

51251	30	2	2	..	3	5	10	**15.00**
51351	30	3	3	..	5	....	10	**18.00**
51252	60	2	2	..	7½	10	16	**20.00**
51253	100	2	2	..	15	15	35	**32.00**
51254	200	2	2	..	25	30	50	**45.00**

Not Fusible—600 Volts D.C./575 Volts A.C.

51261	30	2	2	..	....	7½	10	**18.00**
51341	30	3	3	..	10	....	10	**21.00**
51262	60	2	2	..	....	15	16	**23.00**
51342	60	3	3	..	25	....	16	**26.00**
51263	100	2	2	..	....	25	35	**38.00**
51343	100	3	3	..	40	....	....	**40.00**
51264	200	2	2	..	....	50	....	**49.00**
51344	200	3	3	..	50	....	....	**52.00**

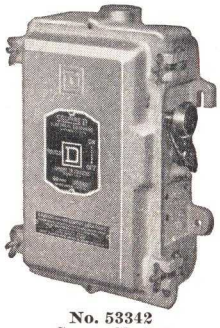
†Solid neutral.

3-Wire Switching Neutral: the above fusible switches can be furnished with unfused switching neutral by omitting the neutral fuse terminals and adding lugs for load connection to blade hinge post on neutral pole. Add "SWN" to regular catalog numbers. Prices same as for regular switches.

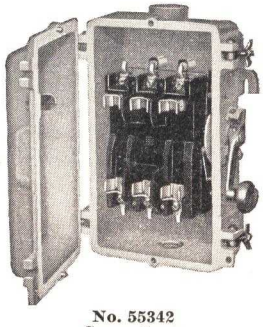
SQUARE D SAFETY SWITCHES

TYPE A SAFETY SWITCHES

Dust Tight—Weatherproof
Fusible and Not Fusible—Single Throw



No. 53342
Cover Closed



No. 55342
Cover Open

Fusible—250 Volts D.C./230 Volts A.C.

Cat. No.	Amps.	Poles	Blades	Fused Poles	H.P. Rating A.C.	H.P. Rating D.C.	Wt. Lbs.	Price Each
55251	30	2	2	2	2	5	20	**$59.00**
55351	30	3	3	3	3	....	20	**66.00**
‡**50311**	30	3	2	2	3	....	20	**65.00**
55252	60	2	2	2	5	10	20	**63.00**
55352	60	3	3	3	7½	....	20	**73.00**
‡**50312**	60	3	2	2	7½	....	20	**71.00**
55253	100	2	2	2	10	15	60	**163.00**
55353	100	3	3	3	15	....	60	**179.00**
‡**50313**	100	3	2	2	15	....	60	**175.00**
55254	200	2	2	2	15	30	60	**240.00**
55354	200	3	3	3	30	....	60	**258.00**
‡**50314**	200	3	2	2	30	....	60	**252.00**

Fusible—600 Volts D.C./575 Volts A.C.

55261	30	2	2	2	....	7½	20	**74.00**
55341	30	3	3	3	7½	....	20	**80.00**
55262	60	2	2	2	....	15	20	**78.00**
55342	60	3	3	3	20	....	20	**86.00**
55263	100	2	2	2	....	25	50	**175.00**
55343	100	3	3	3	30	....	50	**188.00**
55264	200	2	2	2	....	50	60	**252.00**
55344	200	3	3	3	50	....	60	**264.00**

Not Fusible—600 Volts D.C./575 Volts A.C.
Dust Tight—Weatherproof

†*53261	30	2	2	..	....	7½	20	**60.00**
†*53341	30	3	3	..	10	....	20	**66.00**
†*53262	60	2	2	..	....	15	20	**64.00**
†*53342	60	3	3	..	25	....	20	**70.00**
†*53263	100	2	2	..	....	25	50	**165.00**
†*53343	100	3	3	..	40	....	50	**176.00**
†*53264	200	2	2	..	....	50	60	**228.00**
†*53344	200	3	3	..	50	....	60	**240.00**

Explosion Resisting§

54261	30	2	2	..	....	7½	35	**90.00**
54341	30	3	3	..	10	....	70	**100.00**
54262	60	2	2	..	....	15	140	**105.00**
54342	60	3	3	..	25	....	150	**115.00**

†Weatherproof. ‡Solid neutral.

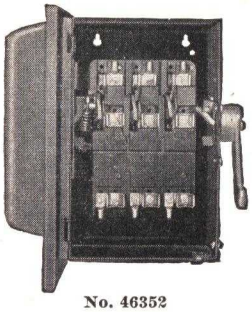
*Dust tight. Specify catalog number and add letter -D, if dust tight enclosure is desired. Approved for Class II, Group G hazardous locations.

§Explosion-Resisting Switches 100-ampere and smaller approved by Underwriters' Laboratories, Inc., for Class I, Group D hazardous locations.

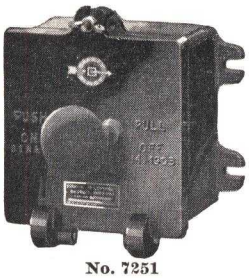
SQUARE D SAFETY SWITCHES

TYPE C SAFETY SWITCHES

Fusible—Single Throw



No. 46352



No. 7251

Intermediate duty industrial. Quick break, quick make. No interlock; positive pressure fuse clips and jaws.

250 Volts D.C., 230 Volts A.C.

Cat. No.	Amps.	Poles	Blades	Fused Poles	H.P. Rating A.C.	H.P. Rating D.C.	Wt. Lbs.	Price Each
45251	30	2	2	2	2	5	5	$9.00
▲7251	30	2	2	2	....	....	10	28.00
*46251	30	2	2	2	2	5	14	14.00
45351	30	3	3	3	3	....	10	11.00
*46351	30	3	3	3	3	....	18	18.00
‡47311	30	3	2	2	3	....	6	10.00
45451	30	4	4	4	3	....	12	21.00
*46451	30	4	4	4	3	....	21	24.00
‡47411	30	4	3	3	3	....	10	14.00
46252	60	2	2	2	5	10	14	16.00
46352	60	3	3	3	7½	....	16	20.00
‡47312	60	3	3	2	7½	....	14	17.00
46452	60	4	4	4	10	....	22	29.00
‡47412	60	4	3	3	7½	....	16	23.00
46253	100	2	2	2	10	15	20	25.00
46353	100	3	3	3	15	....	27	31.00
‡47313	100	3	2	2	15	....	20	26.00
46453	100	4	4	4	20	....	44	47.00
‡47413	100	4	3	3	15	....	27	36.00
46254	200	2	2	2	15	30	38	38.00
46354	200	3	3	3	30	....	46	53.00
‡47314	200	3	2	2	30	....	38	48.00
46454	200	4	4	4	30	....	90	85.00
‡47414	200	4	3	3	30	....	46	63.00
46255	400	2	2	2	30	50	85	96.00
46355	400	3	3	3	50	....	130	111.00
‡47315	400	3	2	2	50	....	85	105.00
46455	400	4	4	4	50	....	150	158.00
‡47415	400	4	3	3	50	....	130	135.00
46256	600	2	2	2	....	....	....	190.00
46356	600	3	3	3	....	....	....	219.00
‡47316	600	3	2	2	....	....	....	204.00
46456	600	4	4	4	....	....	....	290.00
‡47416	600	4	3	3	....	....	....	242.00

*60-ampere switches with 30-ampere fuse spacings and clips. ‡Solid neutral. ▲Cast iron enclosure.

3-Wire Switching Neutral: the above fusible switches can be furnished with unfused switching neutral by omitting the neutral fuse terminals and adding lugs for load connection to blade hinge post on neutral pole. Add "SWN" to regular catalog numbers. Prices same as for regular switches.

SQUARE D SAFETY SWITCHES

TYPE C SAFETY SWITCHES

Fusible and Not Fusible—Single Throw



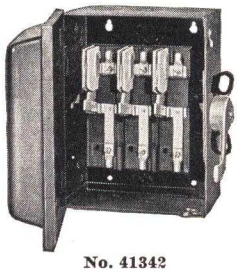
Showing Swing-out for Easy Wiring

Fusible—575 Volts A.C. with Arc Suppressors

Cat. No.	Amps.	Poles	Blades	Fused Poles	H.P. Rating A.C.	H.P. Rating D.C.	Wt. Lbs.	Price Each
45341†	30	3	3	3	7½	....	18	$19.00
46441	30	4	4	4	7½	....	27	31.00
46342†	60	3	3	3	20	....	17	23.00
46442	60	4	4	4	20	....	32	35.00
46343	100	3	3	3	30	....	27	42.00
46443	100	4	4	4	30	....	55	63.00
46344	200	3	3	3	50	....	65	63.00
46444	200	4	4	4	50	....	90	102.00

Not Fusible—250 Volts D.C./230 Volts A.C. Without Arc Suppressors

43251†	30	2	2	..	3	5	5	8.00
43351†	30	3	3	..	5	....	9	10.00
41252†	60	2	2	..	7½	10	10	14.00
41352†	60	3	3	..	10	....	14	18.00
41452	60	4	4	..	15	....	21	24.00
41253	100	2	2	..	15	15	13	24.00
41353	100	3	3	..	20	....	21	27.00
41453	100	4	4	..	25	....	31	45.00
41254	200	2	2	..	25	30	35	32.00
41354	200	3	3	..	40	....	37	44.00
41454	200	4	4	..	50	....	82	80.00
41255	400	2	2	..	50	50	66	80.00
41355	400	3	3	..	50	....	84	96.00
41455	400	4	4	..	50	....	87	137.00
41256	600	2	3	..	....	....	....	150.00
41356	600	3	3	..	....	....	....	196.00
41456	600	4	4	..	....	....	....	240.00



No. 41342

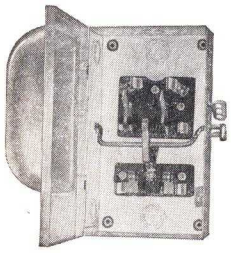
Not Fusible—575 Volts A.C. With Arc Suppressors

Cat. No.	Amps.	Poles	Blades	Fused Poles	H.P. Rating A.C.	H.P. Rating D.C.	Wt. Lbs.	Price Each
43341	30	3	3	..	7½	....	9	$14.00
41342†	30-60	3	3	..	15	....	14	19.00
41442	30-60	4	4	..	25	....	21	31.00
41343	100	3	3	..	30	....	21	35.00
41443	100	4	4	..	40	....	31	57.00
41344	200	3	3	..	50	....	37	48.00
41444	200	4	4	..	50	....	82	82.00

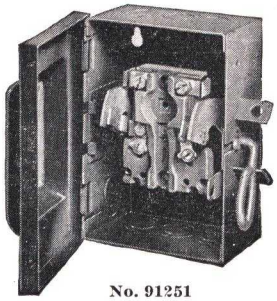
†Has swing-out interior for easy wiring.

SQUARE D SAFETY SWITCHES

GENERAL PURPOSE SAFETY SWITCHES



No. 97313



No. 91251

Fusible—Single Throw

125-250 Volts D.C./115-230 Volts A.C.

Cat. No.	Amps.	Poles	Blades	Fused Poles	Neutral	Wt. Lbs.	Price Each
99211-C	30	2	2	2 Plug	.....	5	**$3.20**
97211-C	30	2	1	1 Plug	S/N	4	**2.70**
97311-C	30	3	2	2 Plug	S/N	4	**3.50**
96411	30	4	4	4 Plug	.....	11	**10.00**
98251-C	30	2	2	2 Cart.	.....	5	**4.00**
97251-C	30	2	2	1 Cart.	S/N	5	**3.00**
96451	30	4	4	4 Cart.	.....	12	**11.00**
96452	60	4	4	4	.....	22	**21.00**
97412	60	4	3	4	S/N	23	**20.00**
96253	100	2	2	2	.....	20	**19.00**
96353	100	3	3	3	.....	27	**22.00**
97313	100	3	2	2	S/N	18	**20.00**
96453	100	4	4	4	.....	44	**47.00**
97413	100	4	3	3	S/N	41	**33.00**
96254	200	2	2	2	.....	38	**35.00**
96354	200	3	3	3	.....	46	**48.00**
97314	200	3	2	2	S/N	43	**44.00**
96454	200	4	4	4	.....	90	**85.00**
97414	200	4	3	3	S/N	85	**59.00**
96255	400	2	2	2	.....	85	**96.00**
96355	400	3	3	3	.....	130	**111.00**
97315	400	3	2	2	S/N	85	**105.00**
96455	400	4	4	4	.....	150	**158.00**
97415	400	4	3	3	S/N	160	**135.00**
96256	600	2	2	2	.....	....	**190.00**
96356	600	3	3	3	.....	....	**219.00**
97316	600	3	2	2	S/N	....	**204.00**
96456	600	4	4	4	.....	....	**290.00**
97416	600	4	3	3	S/N	....	**242.00**

Not Fusible—Single Throw

250 Volts D.C./230 Volts A.C.

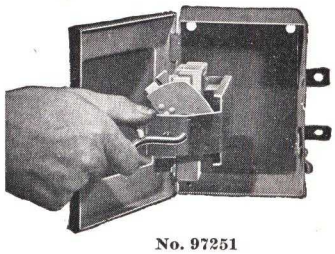
Cat. No.	Amps.	Poles	Blades	Shpg. Wt. Lbs.	Price Each
91251†	30	2	2	5	**$ 3.00**
91351†	30	3	3	6	**5.50**
91451	30	4	4	12	**10.00**
91252†	60	2	2	10	**9.00**
91352†	60	3	3	14	**11.00**
91452	60	4	4	21	**19.00**
91253	100	2	2	12	**18.00**
91353	100	3	3	21	**20.00**
91453	100	4	4	31	**45.00**
91254	200	2	2	35	**26.00**
91354	200	3	3	37	**35.00**
91454	200	4	4	82	**80.00**
91255	400	2	2	66	**80.00**
91355	400	3	3	84	**86.00**
91455	400	4	4	87	**137.00**
91256	600	2	2	110	**150.00**
91356	600	3	3	130	**173.00**
91456	600	4	4	150	**240.00**

†Has swing-out interior for easy wiring.

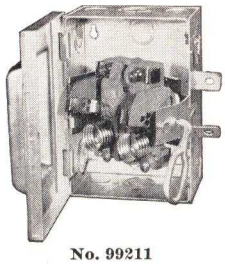
SQUARE D SAFETY SWITCHES

GENERAL PURPOSE SWITCHES

With Swing-Out Interiors



No. 97251



No. 99211

Fusible—Single Throw

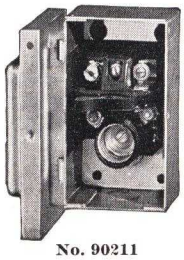
Cat. No.	Amps.	Poles	Blades	Fused Poles	Neutral	Wt. Lbs.	Price Each
99211	30	2	2	2 Plug	.....	5	**$3.80**
99311	30	3	3	3 Plug	.....	6	**6.00**
97211	30	2	2	2 Plug	S/N	4	**3.50**
97311	30	3	2	2 Plug	S/N	5	**4.00**
98251	30	2	2	2 Cart.	.....	5	**4.50**
99351	30	3	3	3 Cart.	.....	9	**7.50**
97251	30	2	2	1 Cart.	S/N	5	**3.60**
97351	30	3	2	2 Cart.	S/N	7	**5.00**
97451	30	4	3	3 Cart.	S/N	12	**10.00**
96252	60	2	2	2	.....	14	**9.50**
96352	60	3	3	3	.....	16	**12.00**

Not Fusible—Single Throw

91251	30	2	2	....	.....	5	**3.00**
91351	30	3	3	....	.....	6	**5.50**
91252	60	2	2	....	.....	10	**9.00**
91352	60	3	3	....	.....	14	**11.00**

TYPE D BLUE LABEL SWITCHES

Fusible—Single Throw



No. 90211



No. 34302

Plug fuses are permissible for use on all circuits not exceeding 30 amperes on systems not more than 125 volts, but including any feeder or circuit of a system having a grounded neutral, if no wire of the feeder or circuit exceeds 150 volts to ground.

Rotor Disc Type—Front Operated

125-250 Volts D.C./115-230 Volts A.C.

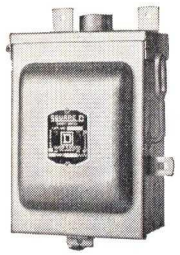
Cat. No.	Amps.	Poles	Blades	Fused Poles	Neutral	Wt. Lbs.	Price Each
93211	30	2	2	2 Plug	.....	3	**$3.20**
***93211-C**	30	2	2	2 Plug	.....	3	**5.20**
90211	30	2	1	1 Plug	S/N	2	**2.70**
†93011	30	2	2	4 Plug	.....	6	**8.00**
‡93011M	30	4	4	4 Plug	.....	6	**10.00**
90311	30	3	2	2 Plug	S/N	3	**3.50**
93251	30	2	2	2 Cart.	.....	3	**4.00**
90351	30	3	2	2 Cart.	S/N	3	**5.00**
34302	60	3	2	2 Cart.	S/N	6	**10.00**

*Same as 93211 but has fibre shield over connections. †Dual Water Heater Switch. Two 93211 in one box. ‡Same as 93011 with fibre shield.

SQUARE D SAFETY SWITCHES

RAINTIGHT SWITCHES

Fusible—Single Throw



2-Wire S/N (1 Blade, 1 Fuse)

115 V. A.C.—125 V. D.C.

Amps.	Fuse	Without Hub Cat. No.	Without Hub Price Each	One Hub in Top Cat. No.	Hub Size	One Hub in Top Price Each
30	Plug	97211R	$6.50	97211RC	¾	$8.00
30	Plug	.....	.....	97211RD	1	8.00
30	Cart.	97251R	7.00	97251RC	¾	8.50
30	Cart.	.....	.....	97251RD	1	8.50

2-Pole, 125/250 V. A.C. or D.C.—230 V. A.C.

30	Plug	*99211R	7.00	99211RC	¾	8.50
30	Plug	.....	.....	99211RD	1	8.50
30	Cart.	98251R	7.50	98251RC	¾	9.00
30	Cart.	.....	.....	98251RD	1	9.00
60		96252R	15.00	96252RE	1¼	16.50
100		96253R	28.00	96253RH	2	30.50
200		96254R	45.00	96254RW	2½	49.00

3-Wire S/N (2 Blades, 2 Fuses)

125/250 V. A.C. or D.C.—230 V. A.C.

30	Plug	*97311R	7.50	97311RC	¾	9.00
30	Plug	.....	.....	97311RD	1	9.00
30	Cart.	97351R	8.50	97351RC	¾	10.00
30	Cart.	.....	.....	97351RD	1	10.00
60		97312R	16.00	97312RE	1¼	17.50
100		97313R	29.00	97313RH	2	31.50
200		97314R	54.00	97314RW	2½	58.00

3-Pole, 115 or 230 Volts A.C.

30	Plug	99311R	12.00	99311RC	¾	13.50
30	Plug	.....	.....	99311RD	1	13.50
30	Cart.	99351R	13.00	99351RC	¾	14.50
30	Cart.	.....	.....	99351RD	1	14.50
60		96352R	17.00	96352RE	1¼	19.50
100		96353R	33.00	96353RH	2	35.50
200		96354R	58.00	96354RW	2½	62.00

4-Wire S/N (3 Blades, 3 Fuses) 230 V. A.C.

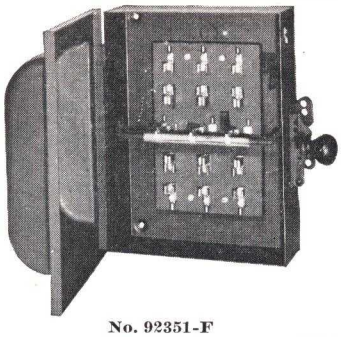
30	Cart.	97451R	17.00	97451RD	1	18.50

*115/230 volts A.C.—125/250 volts D.C. only.

SQUARE D SAFETY SWITCHES

DOUBLE THROW SWITCHES

Fusible Top and Bottom



No. 92351-F

82,000 series switches quick-make and quick-break with interlocked cover; solder - solderless lugs.

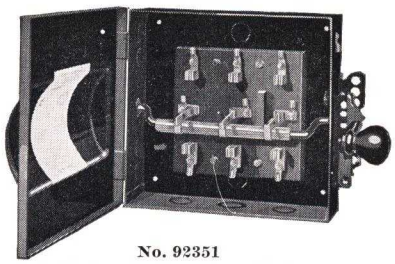
92,000 series switches not quick - make or quick - break; solder - solderless lugs (60 to 600 amp.).

250 Volts D.C./230 Volts A.C.
575 Volts A.C.

Amp.	Poles	230 Volts A.C. 250 Volts D.C. Cat. No.	Wt. Lbs.	Price Each	575 Volts A.C. 600 Volts D.C. Cat. No.	Wt. Lbs.	Price Each
30	2	92251F	20	$30.00	82261F	30	$61.00
30	3	92351F	25	33.00	82341F	35	64.00
30	4	92451F	37	45.00	92441F	42	96.00
60	2	82252F	30	54.00	82262F	30	63.00
60	3	82352F	40	59.00	82342F	35	66.00
60	4	92452F	47	73.00	92442F	42	99.00
100	2	82253F	40	82.00	*82263F	40	109.00
100	3	82353F	55	99.00	82343F	50	116.00
100	4	92453F	70	116.00	92443F	80	172.00
200	2	82254F	50	114.00	*82264F	50	132.00
200	3	82354F	85	150.00	82344F	95	175.00
200	4	92454F	140	190.00	92444F	145	222.00
400	2	92255F	131	231.00	*92245F	111	249.00
400	3	92355F	190	317.00	92345F	160	325.00
400	4	92455F	210	352.00	92445F	190	382.00
600	2	‡92256F	140	287.00	.....	.....	.....
600	3	‡92356F	230	384.00	.....	.....	.....
600	4	‡92456F	325	454.00	.....	.....	.....

DOUBLE THROW SWITCHES

Not Fusible



No. 92351

250 Volts D.C.—230 Volts A.C.

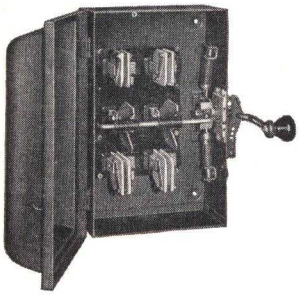
Cat. No.	Amps.	Poles	Blades	Shpg. Wt. Lbs.	Price Each
92251	30	2	2	20	$18.00
92351	30	3	3	14	22.00
92451	30	4	4	20	32.00
82252	60	2	2	14	29.00
82352	60	3	3	16	33.00
92452	60	4	4	28	45.00
82253	100	2	2	27	43.00
82353	100	3	3	32	53.00
92453	100	4	4	58	94.00
82254	200	2	2	47	57.00
82354	200	3	3	60	83.00
92454	200	4	4	95	130.00
92255	400	2	2	81	162.00
92355	400	3	3	163	218.00
92455	400	4	4	130	293.00
92256‡	600	2	2	90	230.00
92356‡	600	3	3	140	303.00
92456‡	600	4	4	175	380.00

*575 volts A.C. — 250 volts D.C. only. ‡Double lugs. Standard single lugs furnished on order.

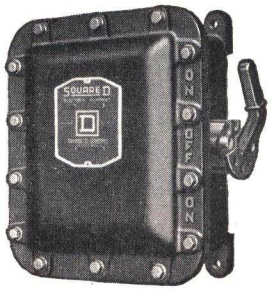
SQUARE D SAFETY SWITCHES

DOUBLE THROW SAFETY SWITCHES NOT FUSIBLE

Sheet Steel and Cast Iron Enclosures



No. 82263



No. 52342

82,000 Series Switches — Quick make, quick break — interlocked cover — solder-solderless lugs.

92,000 Series Switches — Not quick make or quick break — solder-solderless lugs (60 to 600 amp.).

52,000 Series Switches — Positive make and quick break.

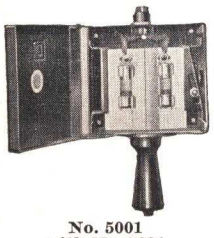
Amps.	Poles	Sheet Steel Enclosure Cat. No.	Wt. Lbs.	Price Each	Cast Iron Explosion Resisting Cat. No.	Wt. Lbs.	Price Each
2-Pole, 575 Volts A.C.—600 Volts D.C.							
30-60	2	**82262**	16	**$30.00**	.....	.....	.....
60	2	.....	....	.....	▲**52262**	185	**$225.00**
100	2	*__82263__	24	**47.00**	.....	.....	.....
200	2	*__82264__	48	**64.00**	.....	.....	.....
400	2	*__92245__	81	**183.00**	.....	.....	.....
600	2	*__92246__‡	90	**257.00**	.....	.....	.....
3-Pole, 575 Volts A.C.							
30-60	3	**82342**	18	**35.00**	.....	.....	.....
60	3	.....	....	.....	▲**52342**	200	**235.00**
100	3	**82343**	30	**57.00**	.....	.....	.....
200	3	**82344**	63	**88.00**	.....	.....	.....
400	3	**92345**	110	**230.00**	.....	.....	.....
600	3	‡**92346**	140	**333.00**	.....	.....	.....
4-Pole, 575 Volts A.C.							
30-60	4	**92442**	27	**50.00**	.....	.....	.....
100	4	**92443**	58	**106.00**	.....	.....	.....
200	4	**92444**	95	**142.00**	.....	.....	.....
400	4	**92445**	130	**318.00**	.....	.....	.....
600	4	‡**92446**	175	**413.00**	.....	.....	.....

*575 volts A.C. — 250 volts D.C. only. ‡Double lugs. Standard Single lugs furnished on order.

▲For Class I, Group D Hazardous Locations and all lower classifications.

Note· Explosion Resisting Boxes are equipped with 2 threaded conduit hubs of proper size.

SQUARE D FUSIBLE PLUG RECEPTACLE



No. 5001 with No. 5021

250 Volts—2-Pole

The receptacle is mounted in a steel cabinet equipped with knockouts. Plug is non-reversible so that it cannot be reversed when inserted in the receptacle. 30 amperes.

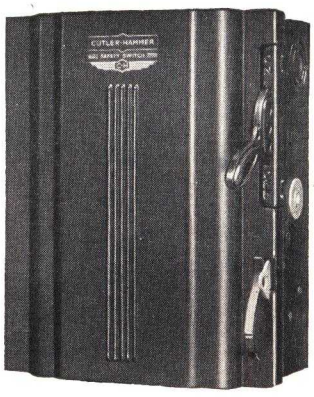
Cat. No.	Description	Wt. Lbs.	Price Each
5001	Recept.	4	**$8.00**
5021	Plug	¼	**4.00**

CUTLER-HAMMER SAFETY SWITCHES

TYPE A—SINGLE THROW—FRONT OPERATED

30 to 600 Amperes

Quick Make and Quick Break — Interlocked Cover



FEATURES —

1—Front operated.
2—Permits mounting side by side for close banking.
3—Modern design matches C-H motor control.
4—Silver plated current carrying parts.
5—Pigtail shunt—reduces heating—no current passes thru hinges.
6—"Wipingtype" arc snuffers.
7—Clamp type fuse clips.
8—Solderless connectors.
9—Cover interlock.
10—One piece porcelain base.
11—Quick make and quick break.
12—Padlock provisions—3 in off position—2 in on position.

FUSIBLE

Cat. No.	Amps.	H.P. A.C.	H.P. D.C.	Wt. Lb.	Price Each
2 Pole, 250 Volts					
4101H201	30	2	5	8	**$16.00**
4101H202	60	5	10	17	**21.00**
4101H203	100	10	15	31	**33.00**
4101H204	200	15	30	84	**54.00**
4101H205	400	30	50	185	**122.00**
4101H206	600	....	....	217	**195.00**
2 Pole, 600 Volts					
4101H211	30	....	3	21	**26.00**
4101H212	60	....	7½	21	**28.00**
4101H213	100	....	25	35	**43.00**
4101H214	200	....	50	84	**64.00**
4101H215	400	....	....	185	**149.00**
4101H216	600	....	....	217	**236.00**
3 Pole, 230 Volts A.C.					
4101H301	30	3	....	10	**20.00**
4101H302	60	7½	....	19	**28.00**
4101H303	100	15	....	33	**43.00**
4101H304	200	30	....	105	**64.00**
4101H305	400	50	....	225	**139.00**
4101H306	600	....	....	286	**238.00**
3 Pole, 575 Volts A.C.					
4101H311	30	7½	....	23	**31.00**
4101H312	60	20	....	23	**33.00**
4101H313	100	30	....	37	**49.00**
4101H314	200	50	....	105	**79.00**
4101H315	400	....	....	225	**162.00**
4101H316	600	....	....	286	**270.00**
3 Wire Solid Neutral (2 Blades 2 Fuses) 125-250 Volts D.C. and 230 Volts A.C.					
4101H341	30	3	....	9	**18.00**
4101H342	60	7½	....	18	**24.00**
4101H343	100	15	....	31	**38.00**
4101H344	200	30	....	100	**59.00**
4101H345	400	50	....	200	**135.00**
4101H346	600	....	....	275	**217.00**

For 800 to 1200 ampere Type A Side-operated switches, see following listings.

CUTLER-HAMMER SAFETY SWITCHES

TYPE A—SINGLE THROW—FRONT OPERATED

30 to 600 Amperes

Quick Make and Quick Break — Interlocked Cover

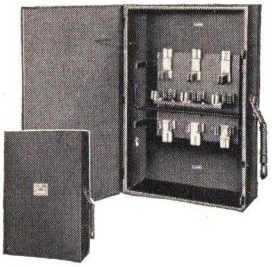
NON-FUSIBLE

Cat. No.	Amps.	H.P. A.C.	H.P. D.C.	Wt. Lb.	Price Each
		2 Pole, 250 Volts			
4101H221	30	3	5	8	$15.00
4101H222	60	7½	10	9	20.00
4101H223	100	15	15	20	32.00
4101H224	200	25	30	70	45.00
4101H225	400	50	50	160	85.00
4101H226	600	....	....	184	167.00
		2 Pole, 600 Volts			
4101H231	30	....	7½	8	18.00
4101H232	60	....	15	16	23.00
4101H233	100	....	25	21	38.00
4101H234	200	....	50	70	48.00
4101H235	400	....	....	160	122.00
4101H236	600	....	....	184	176.00
		3 Pole, 230 Volts A.C.			
		230 V.	575 V.		
4101H321	30	5	....	8	18.00
		3 Pole, 575 Volts A.C.			
4101H331	30	5	10	9	21.00
4101H332	60	10	25	19	26.00
4101H333	100	20	40	24	40.00
4101H334	200	40	50	85	52.00
4101H335	400	....	....	190	135.00
4101H336	600	....	....	235	217.00

TYPE A — SINGLE THROW — SIDE OPERATED

800 to 1200 Amperes

Quick Make and Quick Break—Interlocked Cover



Dust-tight, Class II Group G and Class I Group D types available. Prices on application.

FUSIBLE

Cat. No.	Amps.	H.P. A.C.	H.P. D.C.	Wt. Lbs. Each	Price Each
		2 Pole, 250 Volts A.C. or D.C.			
4101H207	800	....	....	258	$298.00
4101H208	1200	....	....	370	413.00
		3 Pole, 230 Volts A.C.			
4101H307	800	....	....	331	406.00
4101H308	1200	....	....	512	521.00
		2 Pole, 600 Volts			
4101H217	800	....	....	280	365.00
4101H218	▲1200	....	....	510	514.00
		3 Pole, 575 Volts A.C.			
4101H317	800	....	....	350	473.00
4101H318	▲1200	....	....	550	622.00
		4 Pole, 575 Volts A.C.			
4101H417	800	....	....	365	625.00
4101H418	▲1200	....	....	450	877.00
		3 Wire, Solid Neutral (2 Blades, 2 Fuses) 230 Volts A.C.—125/250 Volts D.C.			
4101H347	800	....	....	316	325.00
4101H348	1200	....	....	483	460.00

CUTLER-HAMMER SAFETY SWITCHES

TYPE A — SINGLE THROW — SIDE OPERATED

800 to 1200 Amperes

Quick Make and Quick Break—Interlocked Cover

NON-FUSIBLE

Cat. No.	Amps.	H.P. A.C.	H.P. D.C.	Wt. Lbs. Each	Price Each
		2 Pole, 250 Volts			
4101H237	800	....	....	210	$264.00
4101H238	1200	....	....	240	359.00
		3 Pole, 575 Volts A.C.			
4101H337	800	....	....	265	352.00
4101H338	1200	....	....	300	473.00
		4 Pole, 575 Volts A.C.			
4101H437	800	....	....	320	454.00
4101H438	1200	....	....	341	622.00

For 30, 60, 100, 200, 400 and 600-ampere sizes, see preceding listings of Type A switches.

Standard switches of 800 amperes and over are not provided with knockout holes. They will be provided at no extra charge if sizes and locations are specified when order is entered at factory.

▲With 3-point catch and keylock in place of cover interlock.

TYPE A—COMPACT SIZE

Single-Throw—Quick Make and Quick Break Interlocked Cover



No. 4115H301

Bulletin 4115 Switches incorporate most of the features of the Bulletin 4101 in a small, compact enclosure. They are sturdy and rugged. For severe service where space is at a premium. Though small in size, wiring presents no problem, as the entire mechanism can be removed by loosening just two screws.

Dust-tight Class II Group G and Class I Group D types available. Prices on application.

FUSIBLE

2 Pole, 250 Volts

Cat. No.	Amps.	H.P. A.C.	H.P. D.C.	Wt. Lbs. Each	Price Each
4115H201	30	2	5	6	$16.00
4115H202	60	5	10	14	21.00
		3 Pole, 230 Volts A.C.			
4115H301	30	3	....	10	20.00
4115H302	60	7½	....	18	28.00
		3 Pole, 575 Volts A.C.			
4115H311	30	7½	....	12	31.00
4115H312	60	20	....	18	33.00

NON-FUSIBLE

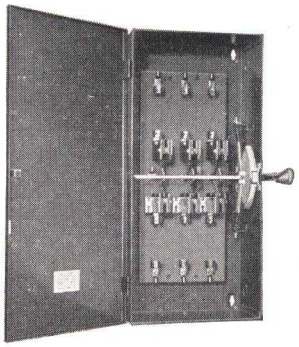
2 Pole, 250 Volts

Cat. No.	Amps.	H.P. A.C.	H.P. D.C.	Wt. Lbs. Each	Price Each
4115H221	30	3	5	6	$15.00
4115H222	60	7½	10	17	20.00
		3 Pole, 230 Volts A.C.			
4115H321	30	5	....	7	18.00
		2 Pole, 600 Volts			
4115H231	30	....	7½	6	18.00
4115H232	60	....	15	17	23.00
		3 Pole, 575 Volts A.C.			
4115H331	30	10	....	7	21.00
4115H332	60	25	....	19	26.00

CUTLER-HAMMER DOUBLE-THROW SAFETY SWITCHES

TYPE A CONSTRUCTION

Double-Throw—Positive Make and Quick Break



No. 4121H36

This is a line of double-throw switches corresponding in general to the Type A single-throw switches. The mechanism is extremely rugged and positive, with a spring action as positive as that of a snap switch.

Double-throw switches are not makeshift combinations of single-throw parts, but are especially designed to meet the requirements of double-throw operating conditions. May be thrown rapidly to any of the three normal positions, yet have a positive make and break operation. Class I Group D type available. Prices on application.

FUSIBLE

Cat. No.	Amps.	Poles	Wt., Lbs. Each	Price Each
2 Pole, 250 Volts				
4121H19	30	2	18	$30.00
4121H20	60	2	24	54.00
4121H21	100	2	61	82.00
4121H22	200	2	125	114.00
4121H23	400	2	185	231.00
4121H24	600	2	288	287.00
3 Pole, 230 Volts A.C.				
4121H30	30	3	21	33.00
4121H31	60	3	32	59.00
4121H32	100	3	85	99.00
4121H33	200	3	160	150.00
4121H34	400	3	250	317.00
4121H35	600	3	310	384.00
4 Pole, 230 Volts A.C.				
4121H41	30	4	29	45.00
4121H42	60	4	40	73.00
4121H43	100	4	93	116.00
4121H44	200	4	190	190.00
4121H45	400	4	290	352.00
4121H46	600	4	400	454.00
2 Pole, 600 Volts				
4121H25	30	2	45	61.00
4121H26	60	2	46	63.00
4121H27	100	2	65	109.00
4121H28	200	2	138	132.00
4121H29	400	2	210	249.00
3 Pole, 575 Volts A.C.				
4121H36	30	3	58	64.00
4121H37	60	3	59	66.00
4121H38	100	3	87	116.00
4121H39	200	3	170	175.00
4121H40	400	3	260	325.00

CUTLER-HAMMER SAFETY SWITCHES

TYPE A CONSTRUCTION

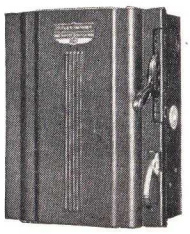
Double-Throw—Positive Make and Quick Break

NON-FUSIBLE TYPE

Cat. No.	Amps.	Poles	Wt., Lbs. Each	Price Each
2 Pole, 250 Volts				
4121H1	30	2	15	$18.00
4121H2	60	2	25	29.00
4121H3	100	2	37	43.00
4121T4	200	2	93	57.00
4121H5	400	2	130	162.00
4121H6	600	2	206	230.00
3 Pole, 230 Volts A.C.				
4121H7	30	3	18	22.00
4121H8	60	3	28	33.00
4121H9	100	3	43	53.00
4121H10	200	3	115	83.00
4121H11	400	3	163	218.00
4121H12	600	3	224	303.00
2 Pole, 600 Volts				
4121H124	30–60	2	23	27.00
4121H125	100	2	39	47.00
4121H126	200	2	100	64.00
4121H127	400	2	135	183.00
4121H128	600	2	215	257.00
3 Pole, 575 Volts				
4121H129	30–60	3	28	35.00
4121H130	100	3	42	57.00
4121H131	200	3	120	88.00
4121H132	400	3	142	230.00
4121H133	600	3	230	333.00

TYPE C

Single-Throw—Quick Make and Quick Break
Not Cover Interlocked



This line of Safety Switches covers a wide range of applications. Suitable for service where heavy overloads or inductive loads are not too frequent and where care is exercised in operating and fusing.

Modern design blends well with C-H Motor Control and with machine contours.

FUSIBLE

Cat. No.	Amps.	H.P. A.C.	H.P. D.C.	Wt. Lbs. Each	Price Each
2 Pole, 250 Volts					
4131H201	30	2	5	8	$ 9.00
4131H202	60	5	10	16	16.00
4131H203	100	10	15	30	25.00
4131H204	200	15	30	80	38.00
4131H205	400	30	50	116	96.00
4131H206	600	....	....	185	190.00
3 Pole, 230 Volts A.C.					
4131H301	30	3	....	10	$11.00
4131H302	60	7½	....	21	20.00
4131H303	100	15	....	32	31.00
4131H304	200	30	....	105	53.00
4131H305	400	50	....	152	111.00
4131H306	600	....	....	220	219.00
3 Pole, 575 Volts A.C.					
4131H311	30	7½	....	22	19.00
4131H312	60	20	....	22	23.00
4131H313	100	30	....	34	42.00
4131H314	200	50	....	105	63.00

CUTLER-HAMMER SAFETY SWITCHES

TYPE C

Single-Throw—Quick Make and Quick Break
Not Cover Interlocked

FUSIBLE

Cat. No.	Amps.	H.P. A.C.	H.P. D.C.	Wt. Lbs. Each	Price Each
4131H341	30	*3	....	9	$10.00
4131H342	60	*7½	....	17	17.00
4131H343	100	*15	....	26	26.00
4131H344	200	*30	....	85	48.00
4131H345	400	*50	....	119	105.00
4131H346	600	....	....	187	204.00

NON-FUSIBLE

2 Pole, 250 Volts

4131H221	30	3	5	7	$ 8.00
4131H222	60	7½	10	8	14.00
4131H223	100	15	15	20	24.00
4131H224	200	25	30	63	32.00
4131H225	400	50	50	85	80.00
4131H226	600	....	....	154	150.00

3 Pole, 230 Volts A.C.

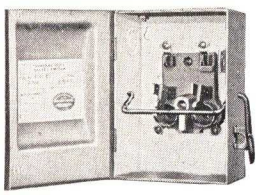
4131H321	30	5	....	10	10.00
4131H322	60	10	....	18	18.00
4131H323	100	20	....	27	27.00
4131H324	200	40	....	70	44.00
4131H325	400	50	....	125	96.00
4131H326	600	....	....	190	196.00

3-Pole, 575 Volts A.C.

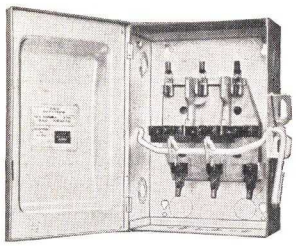
4131H331	30	10	....	8	14.00
4131H332	60	25	....	18	19.00
4131H333	100	40	....	22	35.00
4131H334	200	50	....	85	48.00

TYPE D—SINGLE-THROW

Positive Make and Quick Break*
Not Cover Interlocked



No. 4141H201



No. 4143H302

Suitable for use as enclosed switches and also service equipment. Gray finish on 30 ampere switches; all others black finish. Formed clip construction up to 200 amperes, milled clips on larger sizes. Screw terminals on 30 ampere; solderless lugs on all others.

FUSIBLE

2-Pole, 250 Volts

Cat. No.	Amps.	Poles	Wt. Lbs. Each	Price Each
4141H201*†	30	2	4	$3.20
4143H201	30	2	5	4.00
4143H202	60	2	12	9.50
4143H203	100	2	18	19.00
4143H204	200	2	40	35.00
4143H205	400	2	140	96.00
4143H206	600	2	180	190.00

CUTLER-HAMMER SAFETY SWITCHES

TYPE D—SINGLE-THROW

Positive Make and Quick Break*

Not Cover Interlocked

FUSIBLE

2-Wire Solid Neutral (1 Blade, 1 Fuse)
125 Volts

Cat. No.	Amps.	Poles	Wt. Lbs. Each	Price Each
4141H241	30	2	4	$2.70
4143H241	30	2	5	3.00

3-Pole, 230 Volts A.C.

4141H301*†	30	3	6	6.00
4143H301	30	3	7	7.50
4143H302	60	3	15	12.00
4143H303	100	3	20	22.00
4143H304	200	3	63	48.00
4143H305	400	3	175	111.00
4143H306	600	3	219	219.00

3-Wire Solid Neutral (2 Blades, 2 Fuses)
125-250 Volts D.C.

4141H341*	30	3	4½	3.50
4143H341	30	3	8	5.00
4143H342	60	3	11	10.00
4143H343	100	3	19	20.00
4143H344	200	3	60	44.00
4143H345	400	3	172	105.00
4143H346	600	3	210	204.00

*Plug Fuse Type — All others N.E.C. Type.

†4141H201 rated 125-250 Volts. 4141H301 rated 115 volts A.C.

30 Ampere Switches not quick break.

30 Ampere Switches can be furnished with meter type end walls on request at no extra charge.

NON-FUSIBLE

2-Pole, 250 Volts

Cat. No.	Amps.	Poles	Wt. Lbs. Each	Price Each
4143H221	30	2	5	$ 3.00
4143H222	60	2	13	9.00
4143H223	100	2	19	18.00
4143H224	200	2	35	26.00
4143H225	400	2	95	80.00
4143H226	600	2	135	150.00

3-Pole, 230 Volts A.C.

4143H321	30	3	8	5.50
4143H322	60	3	16	11.00
4143H323	100	3	19	20.00
4143H324	200	3	60	35.00
4143H325	400	3	130	86.00
4143H326	600	3	175	173.00

Without Dead Front

Cat. No.	Amps.	Volts	Poles	Blades	Fuses	Price Each
4146H241*	30	125	2	1	1	$2.70
4146H201*	30	125-250	2	2	2	3.20
4146H341*	30	125-250	3	2	2	3.50
4147H201	30	250	2	2	2	4.00
4147H341	30	125-250	3	2	2	5.00
4147H342	60	125-250	3	2	2	10.00
4147H202	60	250	2	2	2	10.00

*Plug type. All others N.E.C. type.

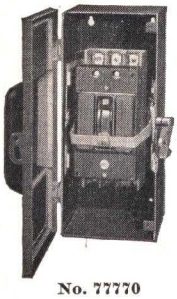
SQUARE D INDUSTRIAL CIRCUIT BREAKERS

THERMAL-MAGNETIC TRIP

50 Ampere Frame Has Both Thermal and High Speed Magnetic Tripping Action

250 VOLTS A.C. AND 125/250 VOLTS D.C. — 600 VOLTS A.C. AND 250 VOLTS D.C.

Manually Operable—Quick Make—Quick Break



No. 77770



No. 77316



No. 77670Y



No. 77716X

Type of Breaker Unit	Amps.	SHEET STEEL ENCLOSURES — Dust-resisting: Cat. No.	List Price	CAST IRON ENCLOSURES — Weatherproof and Dust-tight: Cat. No.	List Price	‡Drill-ings	Class II—Group G: Cat. No.	List Price	‡Drill-ings	Class I—Group D: Cat. No.	List Price	‡Drill-ings
2-Pole, 250 A.C.—125/250 D.C., Non-Interchangeable Trip												
ML 50 Amp. Frame	15	76215	$ 19.00	76215D	$ 35.00	¾"	Use Class I—Group D			76215X	$ 41.00	¾"
	20	76220	19.00	76220D	35.00	¾"				76220X	41.00	¾"
	30	76230	19.00	76230D	35.00	1¼"				76230X	41.00	1¼"
	50	76250	19.00	76250D	35.00	1¼"				76250X	41.00	1¼"
3-Pole, 250 A.C.—125/250 D.C., Non-Interchangeable Trip												
ML 50 Amp. Frame	15	76315	$ 26.00	76315D	$ 50.00	¾"	76315Y	$ 54.00	¾"	76315X	$ 62.00	¾"
	20	76320	26.00	76320D	50.00	¾"	76320Y	54.00	¾"	76320X	62.00	¾"
	30	76330	26.00	76330D	50.00	1¼"	76330Y	54.00	1¼"	76330X	62.00	1¼"
	50	76350	26.00	76350D	50.00	1¼"	76350Y	54.00	1¼"	76350X	62.00	1¼"
2-Pole, 250 A.C.—125/250 D.C., Non-Interchangeable Trip												
ML2 100 Amp. Frame	70	77270	37.00	77270D	78.00	1½"	77270Y	98.00	1½"	77270X	117.00	1½"
	90	77290	37.00	77290D	78.00	1½"	77290Y	98.00	1½"	77290X	117.00	2"
	100	77216	37.00	77216D	78.00	1½"	77216Y	98.00	1½"	77216X	117.00	2"
3-Pole, 250 A.C.—125/250 D.C., Non-Interchangeable Trip												
ML2 100 Amp. Frame	70	77370	47.00	77370D	88.00	1½"	77370Y	107.00	1½"	77370X	126.00	1½"
	90	77390	47.00	77390D	88.00	1½"	77390Y	107.00	1½"	77390X	126.00	2"
	100	77316	47.00	77316D	88.00	1½"	77316Y	107.00	1½"	77316X	126.00	2"
2-Pole, 600 A.C.—▲250 D.C., Non-Interchangeable Trip												
ML2 100 Amp. Frame	15	77615	$ 35.00	77615D	$ 65.00	1¼"	77615Y	$ 71.00	1¼"	77615X	$ 84.00	¾"
	20	77620	35.00	77620D	65.00	1¼"	77620Y	71.00	1¼"	77620X	84.00	¾"
	25	77625	35.00	77625D	65.00	1¼"	77625Y	71.00	1¼"	77625X	84.00	1"
	35	77635	35.00	77635D	65.00	1¼"	77635Y	71.00	1¼"	77635X	84.00	1¼"
	50	77650	35.00	77650D	65.00	1¼"	77650Y	71.00	1¼"	77650X	84.00	1¼"
	70	77670	48.00	77670D	90.00	1½"	77670Y	109.00	1½"	77670X	128.00	1½"
	90	77690	48.00	77690D	90.00	1½"	77690Y	109.00	1½"	77690X	128.00	1½"
	100	77616	48.00	77616D	90.00	1½"	77616Y	109.00	1½"	77616X	128.00	2"
3-Pole, 600 A.C.—Non-Interchangeable Trip												
ML2 100 Amp. Frame	15	77715	$ 44.00	77715D	$ 73.00	1¼"	77715Y	$ 78.00	1¼"	77715X	$ 93.00	¾"
	20	77720	44.00	77720D	73.00	1¼"	77720Y	78.00	1¼"	77720X	93.00	¾"
	25	77725	44.00	77725D	73.00	1¼"	77725Y	78.00	1¼"	77725X	93.00	1"
	35	77735	44.00	77735D	73.00	1¼"	77735Y	78.00	1¼"	77735X	93.00	1¼"
	50	77750	44.00	77750D	73.00	1¼"	77750Y	78.00	1¼"	77750X	93.00	1¼"
	70	77770	58.00	77770D	99.00	1½"	77770Y	119.00	1½"	77770X	138.00	1½"
	90	77790	58.00	77790D	99.00	1½"	77790Y	119.00	1½"	77790X	138.00	1½"
	100	77716	58.00	77716D	99.00	1½"	77716Y	119.00	1½"	77716X	138.00	2"

‡These Cast Enclosures are furnished with standard conduit openings of sizes as shown — one in top, two in bottom, except 2-Pole, 250 volts A.C. which have one in top and one in bottom.

▲For 250 volt D.C. devices add suffix D.C. after catalog number in this group.

SQUARE D INDUSTRIAL CIRCUIT BREAKERS

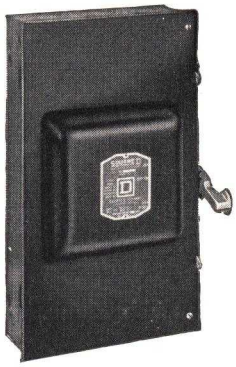
THERMAL-MAGNETIC TRIP

250 Volts A.C. and 125/250 Volts D.C.—600 Volts A.C. and 250 Volts D.C.

Manually Operable—Quick Make—Quick Break



No. 78327X



No. 78318



No. 78326D

Type of Breaker Unit	Amps.	SHEET STEEL ENCLOSURES		CAST IRON ENCLOSURES								
		Dust-resisting		Weatherproof and Dust-tight			Class II—Group G			Class I—Group D		
		Cat. No.	List Price	Cat. No.	List Price	‡Drill-ings	Cat. No.	List Price	‡Drill-ings	Cat. No.	List Price	‡Drill-ings
2-Pole, 250 Volts A.C.—125/250 Volts D.C., Non-Interchangeable Trip												
ML3 225 Amp. Frame	125	**78217**	**$112.00**	**78217D**	**$193.00**	2½″	**78217Y**	**$207.00**	2½″	**78217X**	**$230.00**	2½″
	150	**78218**	**112.00**	**78218D**	**193.00**	2½″	**78218Y**	**207.00**	2½″	**78218X**	**230.00**	2½″
	175	**78219**	**112.00**	**78219D**	**193.00**	2½″	**78219Y**	**207.00**	2½″	**78219X**	**230.00**	2½″
	200	**78226**	**112.00**	**78226D**	**193.00**	2½″	**78226Y**	**207.00**	2½″	**78226X**	**230.00**	2½″
	225	**78227**	**112.00**	**78227D**	**193.00**	2½″	**78227Y**	**207.00**	2½″	**78227X**	**230.00**	2½″
3-Pole, 250 Volts A.C.—125/250 Volts D.C., Non-Interchangeable Trip												
ML3 225 Amp. Frame	125	**78317**	**$134.00**	**78317D**	**$215.00**	2½″	**78317Y**	**$229.00**	2½″	**78317X**	**$252.00**	2½″
	150	**78318**	**134.00**	**78318D**	**215.00**	2½″	**78318Y**	**229.00**	2½″	**78318X**	**252.00**	2½″
	175	**78319**	**134.00**	**78319D**	**215.00**	2½″	**78319Y**	**229.00**	2½″	**78319X**	**252.00**	2½″
	200	**78326**	**134.00**	**78326D**	**215.00**	2½″	**78326Y**	**229.00**	2½″	**78326X**	**252.00**	2½″
	225	**78327**	**134.00**	**78327D**	**215.00**	2½″	**78327Y**	**229.00**	2½″	**78327X**	**252.00**	2½″
2-Pole, 600 Volts A.C.—250 Volts D.C., Non-Interchangeable Trip												
ML3 225 Amp. Frame	125	**78617**	**$131.00**	**78617D**	**$213.00**	2½″	**78617Y**	**$227.00**	2½″	**78617X**	**$250.00**	2½″
	150	**78618**	**131.00**	**78618D**	**213.00**	2½″	**78618Y**	**227.00**	2½″	**78618X**	**250.00**	2½″
	175	**78619**	**131.00**	**78619D**	**213.00**	2½″	**78619Y**	**227.00**	2½″	**78619X**	**250.00**	2½″
	200	**78626**	**131.00**	**78626D**	**213.00**	2½″	**78626Y**	**227.00**	2½″	**78626X**	**250.00**	2½″
	225	**78627**	**131.00**	**78627D**	**213.00**	2½″	**78627Y**	**227.00**	2½″	**78627X**	**250.00**	2½″
3-Pole, 600 Volts A.C.—250 Volts D.C., Non-Interchangeable Trip												
ML3 225 Amp. Frame	125	**78717**	**$161.00**	**78717D**	**$242.00**	2½″	**78717Y**	**$256.00**	2½″	**78717X**	**$279.00**	2½″
	150	**78718**	**161.00**	**78718D**	**242.00**	2½″	**78718Y**	**256.00**	2½″	**78718X**	**279.00**	2½″
	175	**78719**	**161.00**	**78719D**	**242.00**	2½″	**78719Y**	**256.00**	2½″	**78719X**	**279.00**	2½″
	200	**78726**	**161.00**	**78726D**	**242.00**	2½″	**78726Y**	**256.00**	2½″	**78726X**	**279.00**	2½″
	225	**78727**	**161.00**	**78727D**	**242.00**	2½″	**78727Y**	**256.00**	2½″	**78727X**	**279.00**	2½″

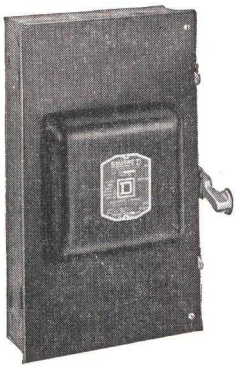
These cast enclosures are furnished with standard conduit openings of sizes as shown — one in top, two in bottom.

SQUARE D INDUSTRIAL CIRCUIT BREAKERS

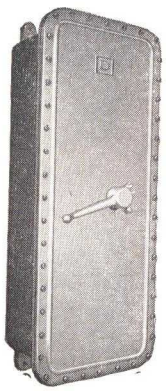
THERMAL-MAGNETIC TRIP

250 Volts A.C. and 125/250 Volts D.C.—600 Volts A.C. and 250 Volts D.C.

MANUALLY OPERABLE—QUICK MAKE—QUICK BREAK



No. 69666



No. 69366X

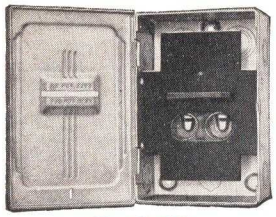
TYPE OF BREAKER UNIT	Amps.	SHEET STEEL ENCLOSURES Dust-resisting Cat. No.	List Price	‡CAST IRON ENCLOSURES Weatherproof and Dust-tight Cat. No.	List Price	Class 1—Group D Cat. No.	List Price
2-Pole, 250 Volts A.C.—125/250 Volts D.C., Interchangeable Trip Units							
Type WL 600 Amp. Frame	225	69227	$282.00	69227D	$529.00	69227X	$587.00
	250	69228	282.00	69228D	529.00	69228X	587.00
	275	69229	282.00	69229D	529.00	69229X	587.00
	300	69236	282.00	69236D	529.00	69236X	587.00
	325	69237	282.00	69237D	529.00	69237X	587.00
	350	69238	282.00	69238D	529.00	69238X	587.00
	400	69246	282.00	69246D	529.00	69246X	587.00
	450	69248	323.00	69248D	570.00	69248X	628.00
	500	69256	323.00	69256D	570.00	69256X	628.00
	550	69258	323.00	69258D	570.00	69258X	628.00
	600	69266	323.00	69266D	570.00	69266X	628.00
3-Pole, 250 Volts A.C.—125/250 Volts D.C., Interchangeable Trip Units							
Type WL 600 Amp. Frame	225	69327	$351.00	69327D	$600.00	69327X	$665.00
	250	69328	351.00	69328D	600.00	69328X	665.00
	275	69329	351.00	69329D	600.00	69329X	665.00
	300	69336	351.00	69336D	600.00	69336X	665.00
	325	69337	351.00	69337D	600.00	69337X	665.00
	350	69338	351.00	69338D	600.00	69338X	665.00
	400	69346	351.00	69346D	600.00	69346X	665.00
	450	69348	405.00	69348D	654.00	69348X	719.00
	500	69356	405.00	69356D	654.00	69356X	719.00
	550	69358	405.00	69358D	654.00	69358X	719.00
	600	69366	405.00	69366D	654.00	69366X	719.00
2-Pole, 600 Volts A.C.—250 Volts D.C., Interchangeable Trip Units							
Type WL 600 Amp. Frame	225	69627	$300.00	69627D	$550.00	69627X	$610.00
	250	69628	300.00	69628D	550.00	69628X	610.00
	275	69629	300.00	69629D	550.00	69629X	610.00
	300	69636	300.00	69636D	550.00	69636X	610.00
	325	69637	300.00	69637D	550.00	69637X	610.00
	350	69638	300.00	69638D	550.00	69638X	610.00
	400	69646	300.00	69646D	550.00	69646X	610.00
	450	69648	341.00	69648D	591.00	69648X	656.00
	500	69656	341.00	69656D	591.00	69656X	656.00
	550	69658	341.00	69658D	591.00	69658X	656.00
	600	69666	341.00	69666D	591.00	69666X	656.00
3-Pole, 600 Volts A.C.—250 Volts D.C., Interchangeable Trip Units							
Type WL 600 Amp. Frame	225	69727	$378.00	69727D	$635.00	69727X	$693.00
	250	69728	378.00	69728D	635.00	69728X	693.00
	275	69729	378.00	69729D	635.00	69729X	693.00
	300	69736	378.00	69736D	635.00	69736X	693.00
	325	69737	378.00	69737D	635.00	69737X	693.00
	350	69738	378.00	69738D	635.00	69738X	693.00
	400	69746	378.00	69746D	635.00	69746X	693.00
	450	69748	432.00	69748D	689.00	69748X	747.00
	500	69756	432.00	69756D	689.00	69756X	747.00
	550	69758	432.00	69758D	689.00	69758X	747.00
	600	69766	432.00	69766D	689.00	69766X	747.00

‡Cast enclosure furnished without conduit openings unless size and location specified on order.

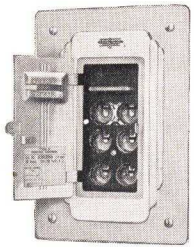
CUTLER-HAMMER SERVICE CONTROL

METER-SWITCH SEQUENCE

Bulletin 4302



No. 4302H1



No. 4302H3

Fuseless Main with Branch Circuits—Dead Front 3 Wire Grounded Solid Neutral

Cat. No.	Amps.	Volts A.C.	Fuses Main	Fuses Range	Fuses Light-ing	Price Surface	Price Flush*
4302H1	30	115-230	0	0	2 P	$5.50	$6.50
*4302H13	30	115-230	0	0	4 P	12.00	13.00
4302H2†	30	115-230	0	0	4 P	11.00	12.00
4302H3†	30	115-230	0	0	6 P	12.00	13.00
*4302H6	30	115-230	0	0	6 P	13.00	14.00
4302H17	60	115-230	0	2-60A	4 P	12.00	13.00

*Flush mounting type. Cover finished in gray enamel.

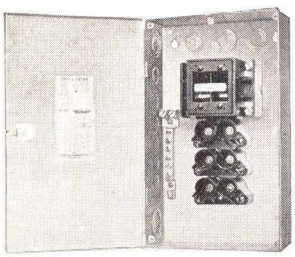
†4302H2-3-17 surface type available with meter end wall.

*With transformer compartment.

METER–SWITCH–FUSE SEQUENCE

Bulletin 4330

Pull-Out Type Main Switch
With and Without Branch Circuits
Accessible Fuses—Dead Front Construction
Solidly Grounded Neutral Service



No. 4330H26
Dead Front Plate Removed

60 Ampere—3 Wire Solid Neutral
125-250 Volt A.C. Service
Flush Mounting Type

Cat. No.	No. of Circuits Lighting 30 Amp.	No. of Circuits Main 60 Amp.	Shpg. Wt. Each	Price Each
4330H21F	0	1	8	$11.00
4330H24F	4	1	14	13.00
4330H26F	6	1	15	18.00
4330H28F	8	1	16	23.00
Surface Mounting Type				
4330H21S	0	1	8	10.00
4330H24S	4	1	14	12.00
4330H26S	6	1	15	17.00
4330H28S	8	1	16	22.00

Order must specify flush mounting when desired.

CUTLER-HAMMER SERVICE CONTROL



M-S-F SEQUENCE

Bulletin 4334

Pull-out type Main and Range switches. Dead front construction. 3-wire grounded solid neutral. Also available with Meter End Wall.

The flush mounting type has cover finished in gray enamel.

With Main and Range Units in Series

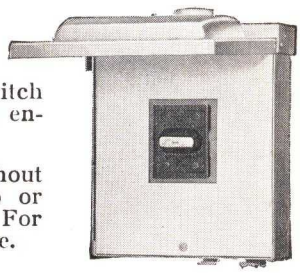
Cat. No.	Amps.	Volts A.C.	Fuses Main	Fuses Range	Fuses Light-ing	Price Surface	Price Flush*
4334H15	60	115-230	2-60	2-60	4 P	$12.00	$13.00
4334H23	60	115-230	2-60	2-60	6 P	19.00	20.00
4334H24	60	115-230	2-60	2-60	8 P	24.00	27.00

METER-SWITCH-FUSE SEQUENCE

Bulletin 4330
Raintight Switch

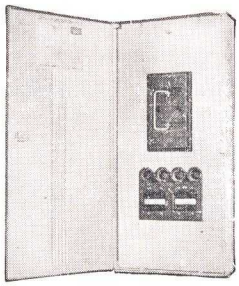
Pull-out type main switch in raintight, zinc plated enclosure.

Available with or without 1-inch or 1¼-inch hub or nipple at no extra cost. For 125/250 volt AC service.



Cat No	Circuit	Shpg. Wt. Lbs.	Price Each
4330-H31	60 Amp., 3 Wire S/N.....	12	$12.00

METER-SWITCH-FUSE SEQUENCE



No. 4336H2

Bulletin 4336

Pull out type main switch. Dead front construction. 3-wire grounded solid neutral. Non-interchangeable pull-outs. Convenient fuse testing facilities. Slots in cover and case for sealing purposes.

Gray finish.

100 Amps., 125-250 Volts A.C.

Cat. No.	Main Fuses	Branch Circuit Fuses Cart-ridge	Branch Circuit Fuses Plug	Shpg. Wt. Lbs.	Price Each Surface	Price Each *Flush
4336H1	2-100	None	None	18	$22.00	$23.00
4336H2	2-100	4-60	4-30	28	45.00	47.00
4336H3	2-100	4-60	6-30	29	50.00	52.00
4336H4	2-100	4-60	8-30	30	53.00	55.00

*Order must specify flush mounting when desired.

†Also suitable for 230 volts A-c.

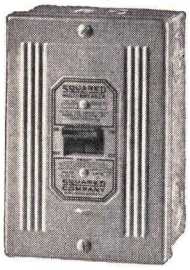
SQUARE D MULTI-BREAKER TYPE MO2 AND MO4

THERMAL-MAGNETIC TRIP

(Both Thermal and High Speed Magnetic Tripping Action)

For Use On A. C. Systems Only

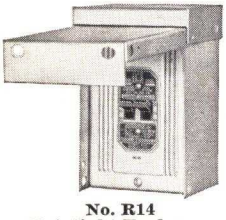
Standard Finish, Surface Type—Aluminum. Flush Type—Box Aluminum, Cover Gray Enamel Raintight—Aluminum.



No. 161622

MO2 AND MO4 MULTI-BREAKER FEATURES

1. Has both thermal and high speed magnetic tripping action.
2. No magnetic coils to burn out.
3. Nothing to replace after a circuit interruption; just reset the handle.
4. Trip-free handle cannot be held closed on a short circuit or overload.
5. Handle indicates ON, OFF, and TRIPPED positions.
6. Safe — No live parts are exposed even when restoring the current.
7. Tamper proof—factory calibrated and sealed.
8. Assortment of pole or branch circuit capacities, 15, 20, and 30 amperes.
9. Meets 1947 N.E.C. wire ratings.
10. Two adjacent single poles can readily be converted to a double pole circuit.
11. Small in size — MO2 5⅞" high, 3⅞" wide and 2⅞" deep — MO4 7$\frac{3}{16}$" high, 5$\frac{1}{16}$" wide and 2⅞" deep.
12. Easy to wire.
13. Available for flush or surface mounting.

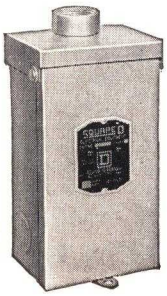


No. R14
Raintight Enclosure
Hood with surface type
MO Multi-breaker

The boxes are made of 16-gauge steel with aluminum finish having sufficient concentric knockouts to accommodate line and load wires. $\frac{3}{32}$-inch knockouts are provided for neutral ground wiring.



No. 182211



No. RC 182211

Form of Breaker and Frame Size	No. of Main or Branch Circuits		Insulated (Groundable) Solid Neutral			No Neutral			Solid Mains Rating (Max.)
	1 Pole Breakers	2 Pole Breakers	Catalog Number	List Price	Box No.	Catalog Number	List Price	Box No.	
2-Wire S/N 120 Volts A. C.									
MO2 30 A. Frame	1-15A	0	**161110**	**$3.30**	16				No. 8 Wire Max.
	1-20A	0	**161120**	**3.30**	16				
	1-30A	0	**161130**	**3.30**	16				
3-Wire S/N 120/240 Volts A. C.						**2-Pole 120/240 Volts A. C.**			
MO2 30 A. Frame	0	1-15A	**161611**	**$5.00**	16	**151611**	**$4.50**	15	No. 8 Wire Max.
	0	1-20A	**161622**	**5.00**	16	**151622**	**4.50**	15	
	0	1-30A	**161633**	**5.00**	16	**151633**	**4.50**	15	
	2-15A	0	**161711**	**5.00**	16				
	2-20A	0	**161722**	**5.00**	16				
	2-30A	0	**171733**	**5.00**	16				
	1-15A 1-20A	0	**161712**	**5.00**	16				
***MO4 30 A. Frame**	4-15A		**181111**	**11.00**	18				50 Amp. Max.
	4-20A		**182222**	**11.00**	18				
	4-30A		**183333**	**11.00**	18				
	3-15A 1-20A		**181112**	**11.00**	18				
	2-15A 2-20A		**182211**	**11.00**	18				
	2-15A 2-30A		**183311**	**11.00**	18				
	1-15A 1-20A 2-30A		**183312**	**11.00**	18				
	Handle Ties		**10HT**	**.20 ea.** (Std. Pkg. 10)					

IMPORTANT—Specify type of mounting. For FLUSH devices add "F" to Catalog Number. For SURFACE devices add "S" to Catalog Number.

For Raintight Devices, see another page.

*MO4 Devices are listed as single pole 120 volt circuits. For double pole circuits of like capacity poles, insert handle tie furnished with each device.

SQUARE D MULTI-BREAKER TYPE M LOAD CENTERS

For Use on A. C. Systems Only

MO } 2 Pole Breakers—Individual Trip
M }

M1—2 or 3 Pole Breakers—Common Trip
M2—2 or 3 Pole Breakers—Common Trip

Form of Breaker and Frame Size	★No. of Main or Branch Circuits			Insulated (Groundable) Solid Neutral			No Neutral			Solid Mains Rating (Max.)
	1 Pole Breakers	2 Pole Breakers	3 Pole Breakers	Catalog Number	List Price	Box No.	Catalog Number	List Price	Box No.	
2-Wire S/N 120 Volts A. C.										
MO 25 A. Frame	1-15A	0	0	131110	$3.00	13				35 A. (Max.) No. 8 Wire Terminals
	1-20A	0	0	131120	3.00	13				
	1-25A	0	0	131130	3.00	13				
M 50 A. Frame	1-15A	0	0	16501	6.50	23				50 A. (Max.)
	1-20A	0	0	16502	6.50	23				
	1-25A	0	0	16503	6.50	23				
	1-35A	0	0	16504	6.50	23				
	1-50A	0	0	16505	6.50	23				
3-Wire S/N 120/240 Volts A. C.							**2-Pole 120/240 Volts A. C.**			
MO 25 A. Frame	0	1-15A	0	131611	$4.50	13	111611	$4.00	11	35 A. (Max.) No. 8 Wire Terminals
	0	1-20A	0	131622	4.50	13	111622	4.00	11	
	0	1-25A	0	131633	4.50	13	111633	4.00	11	
	2-15A	0	0	131711	4.50	13				
	2-20A	0	0	131722	4.50	13				
	2-25A	0	0	131733	4.50	13				
	1-15A 1-20A	0	0	131712	4.50	13				
★M 50 A. Frame	0	1-10A	0	16766	8.50	23	16966	8.00	21	50 A. (Max.)
	0	1-15A	0	16711	8.50	23	16911	8.00	21	
	0	1-20A	0	16722	8.50	23	16922	8.00	21	
	0	1-25A	0	16733	8.50	23	16933	8.00	21	
	0	1-35A	0	16744	8.50	23	16944	8.00	21	
	0	1-50A	0	16755	8.50	23	16955	8.00	21	
	2-15A	0	0	16611	8.00	23				70 A. (Max.)
	2-20A	0	0	16622	8.00	23				
	2-25A	0	0	16633	8.00	23				
	2-35A	0	0	16644	8.00	23				
	2-50A	0	0	16655	8.00	23				
	1-15A 1-20A	0	0	16612	8.00	23				
	3	0	0	35530	11.00	3				
	4	0	0	35540	12.00	3				
	1	1	0	35511	11.00	3				
	2	1	0	35521	13.00	3				
	0	2	0	35502	13.00	3				
	5	0	0	95550	18.00	9				3-50 A.* (Max.)
	6	0	0	95560	19.00	9				
	3	1	0	95531	19.00	9				
	4	1	0	95541	20.00	9				
	1	2	0	95512	19.00	9				
	2	2	0	95522	20.00	9				
	0	3	0	95503	21.00	9				
	0	4	0	79504	54.00	7				225 A. (Max.)
	0	5	0	79505	58.00	7				
	0	6	0	79506	63.00	7				
3-Wire S/N 120/240 Volts A. C.							**2 Pole 240 Volts A. C.**			
M1 50 A. Frame	0	1-15	0				212215	$13.00	21	50A. (Max.)
	0	1-20	0				212220	13.00	21	
	0	1-25	0				212225	13.00	21	
	0	1-35	0				212235	13.00	21	
	0	1-50	0				212250	13.00	21	
M2 100 A. Frame	0	1-50A	0	333250	†$21.00	33	313250	†19.00	31	100 A. (Max.)
	0	1-70A	0	333270	†21.00	33	313270	†19.00	31	
	0	1-90A	0	333290	†21.00	33	313290	†19.00	31	
	0	1-100A	0	333216	†21.00	33	313216	†19.00	31	
4-Wire 3 Phase S/N 240 Volts A. C.							**3 Pole 240 Volts A. C.**			
M1 50 A. Frame	0	0	1-15A	282315	$24.00	28	262315	$23.00	26	50 A. (Max.)
	0	0	1-20A	282320	24.00	28	262320	23.00	26	
	0	0	1-25A	282325	24.00	28	262325	23.00	26	
	0	0	1-35A	282335	24.00	28	262335	23.00	26	
	0	0	1-50A	282350	24.00	28	262350	23.00	26	
M2 100 A. Frame	0	0	1-50A	333350	†38.00	33	313350	†36.00	31	100 A. (Max.)
	0	0	1-70A	333370	†38.00	33	313370	†36.00	31	
	0	0	1-90A	333390	†38.00	33	313390	†36.00	31	
	0	0	1-100A	333316	†38.00	33	313316	†36.00	31	

Specify branch circuit ratings and type of mounting. For FLUSH devices add "F" to Catalog Number. For SURFACE devices add "S" to Catalog Number.

*Can also be furnished with 100 amp. bussed mains.

*Where ampere ratings are not shown on M-50-A frame breakers, any capacity from 15 to 50A can be furnished.

†Prices shown are for surface mounting. For flush mounting add $2.50 list on Form M2.

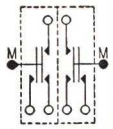
For Raintight Devices, see another page.

SQUARE D MULTI-BREAKER TYPE MB LOAD CENTERS

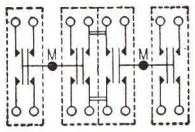
For Use on A. C. Systems Only

Form MB Breakers Have Individual Trip

3-Wire S/N 120-240 Volts A. C.



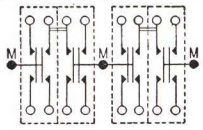
No. of Main or Branch Circuits		Insulated (Groundable) Solid Neutral			Solid Mains Rating (Max.)	†Cast Iron Enclosure		
1 Pole Brkrs.	2 Pole Brkrs.	Catalog Number	List Price	Box No.		Catalog Number	List Price	Box No.
2	0	35020	$10.00	3	70 A. (Max.)	X35020	$ 75.00	X3
3	0	35030	12.00	3		X35030	104.00	X3
4	0	35040	12.00	3		X35040	113.00	X3
5	0	35050	13.00	3		X35050	122.00	X3
6	0	35060	14.00	3		X35060	132.00	X3
7	0	35070	15.00	3		X35070	141.00	X3
8	0	35080	17.00	3		X35080	150.00	X3
0	1	35001	10.00	3		X35001	75.00	X3
1	1	35011	12.00	3		X35011	104.00	X3
2	1	35021	12.00	3		X35021	113.00	X3
3	1	35031	13.00	3		X35031	122.00	X3
4	1	35041	14.00	3		X35041	132.00	X3
5	1	35051	15.00	3		X35051	141.00	X3
6	1	35061	17.00	3		X35061	150.00	X3
0	2	35002	12.00	3		X35002	113.00	X3
1	2	35012	14.00	3		X35012	122.00	X3
2	2	35022	15.00	3		X35022	132.00	X3
3	2	35032	16.00	3		X35032	141.00	X3
4	2	35042	17.00	3		X35042	150.00	X3
0	3	*35003	15.00	3				
1	3	*35013	16.00	3				
2	3	*35023	17.00	3				
0	4	*35004	18.00	3				
9	0	57090	34.00	5	100 A. (Max.)			
10	0	57100	35.00	5				
11	0	57110	37.00	5				
12	0	57120	38.00	5				
13	0	57130	40.00	5				
14	0	57140	42.00	5				
15	0	57150	43.00	5				
16	0	57160	44.00	5				
7	1	57071	34.00	5				
8	1	57081	35.00	5				
9	1	57091	37.00	5				
10	1	57101	38.00	5				
11	1	57111	40.00	5				
12	1	57121	42.00	5				
13	1	57131	43.00	5				
14	1	57141	44.00	5				



3-Wire S/N 120-240 Volts A. C.

No. of Main or Branch Circuits		Insulated (Groundable) Solid Neutral			Solid Mains Rating (Max.)
1 Pole Brkrs.	2 Pole Brkrs.	Catalog Number	List Price	Box No.	
5	2	57052	$34.00	5	100 A. (Max.)
6	2	57062	35.00	5	
7	2	57072	37.00	5	
8	2	57082	38.00	5	
9	2	57092	40.00	5	
10	2	57102	42.00	5	
11	2	57112	43.00	5	
12	2	57122	44.00	5	
3	3	57033	34.00	5	
4	3	57043	35.00	5	
5	3	57053	37.00	5	
6	3	57063	38.00	5	
7	3	57073	40.00	5	
8	3	57083	42.00	5	
9	3	57093	43.00	5	
10	3	57103	44.00	5	
1	4	57014	34.00	5	
2	4	57024	35.00	5	
3	4	57034	37.00	5	
4	4	57044	38.00	5	
5	4	57054	40.00	5	
6	4	57064	42.00	5	
7	4	57074	43.00	5	
8	4	57084	44.00	5	
0	5	*57005	36.00	5	
1	5	*57015	37.00	5	
2	5	*57025	38.00	5	
3	5	*57035	41.00	5	
4	5	*57045	42.00	5	
5	5	*57055	43.00	5	
6	5	*57065	44.00	5	
0	6	*57006	38.00	5	
1	6	*57016	41.00	5	
2	6	*57026	42.00	5	
3	6	*57036	43.00	5	
4	6	*57046	45.00	5	
0	7	*57007	42.00	5	
1	7	*57017	43.00	5	
2	7	*57027	45.00	5	
0	8	*57008	45.00	5	

4-Wire 3 Phase S/N 120-208 Volts



No. of Main or Branch Circuits		Insulated (Groundable) Solid Neutral			Solid Mains Rating (Max.)
1 Pole Brkrs.	2 Pole Brkrs.	Catalog Number	List Price	Box No.	
9	0	56090	37.00	5	70 A. (Max.)
10	0	56100	38.00	5	
12	0	56120	40.00	5	
14	0	56140	44.00	5	
16	0	56160	47.00	5	

IMPORTANT—Specify 15, 20, 25, 35 or 50 Amp, one pole or two pole branch circuits desired for each catalog number ordered. Any individual single polarity block in Type MB devices is limited to a maximum of 135 amperes as the sum of the individual pole ratings.

For FLUSH devices add "F" to catalog number. For SURFACE devices add "S" to catalog number.

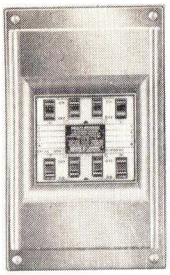
*Where more than 2 double poles in box 3 devices or more than 4 double poles in box 5 devices are shown, this is accomplished by use of handle bails, coupling outside single poles.

For Raintight Devices, see another page.

†For Class I Group D and Lower Class Applications. No drillings furnished unless specified.

SQUARE D "AD-ON" MULTI-BREAKER

Type MB-4 Service and Load Center



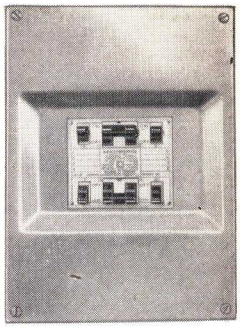
70 Amp. Mains

MB-4 Multi-Breaker devices consist of basic 4-pole units with double polarity mains for use on 120/240 volt, 3-wire single phase systems, complete with box and flush or surface covers.

Thirty-three basic devices are available having combinations of 4 breaker poles; factory calibrated and tested — 15, 20, 30, 40 and/or 50 amps. Provisions are made on sides of basic 4-pole units to add 1, 2, 3 or 4 "AD-ON" units.

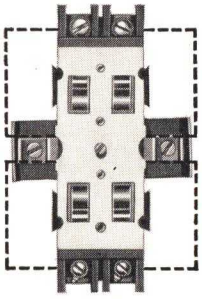
Basic MB-4 units are made up in popular combinations of: (1) 4 single poles, (2) 1 double pole and 2 single poles, (3) 2 double poles.

With the 33 basic unit devices and 2 "AD-ON" units any combination of ratings required for lighting and appliance circuits can be made. Type MB-4 load centers are available in two sizes — 70 ampere for small homes and 100 ampere for larger homes and commercial use.



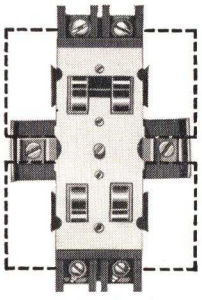
100 Amp. Mains

4 Single Poles
A—B



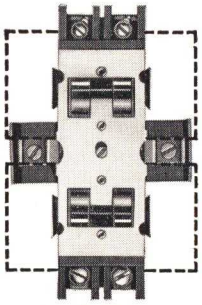
C—D

1 Double and
2 Single Poles
A—B



C—D

2 Double Poles
A—B



C—D

Ad-On Units



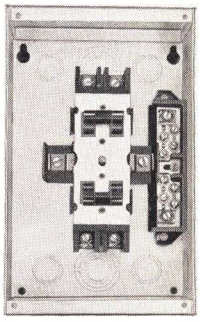
1 Single Pole

Capacity and Position of Single and Double Pole Breakers				INDOOR ENCLOSURES*					
				Complete Device 70 Amp. (Max.) Mains			Complete Device 100 Amp. (Max.) Mains		
Position				Catalog Number	List Price	Box No.	Catalog Number	List Price	Box No.
A	B	C	D						
SP	SP	SP	SP						
15A	15A	15A	15A	21111	$12.50	2	81111	$17.00	8
15A	15A	15A	20A	21112			81112		
15A	15A	15A	30A	21113			81113		
20A	20A	15A	15A	22211			82211		
20A	20A	20A	20A	22222			82222		
30A	30A	15A	15A	23311			83311		
30A	30A	30A	30A	23333			83333		
DP		SP	SP						
15A		15A	15A	29111	$12.70	2	89111	$17.20	8
20A		15A	15A	29211			89211		
20A		20A	20A	29222			89222		
30A		15A	15A	29311			89311		
40A		15A	15A	29411			89411		
40A		15A	20A	29412			89412		
40A		20A	20A	29422			89422		
40A		30A	30A	29433			89433		
50A		15A	15A	29511			89511		
50A		15A	20A	29512			89512		
50A		20A	20A	29522			89522		
50A		30A	30A	29533			89533		
DP		DP							
15A		15A		29191	$12.90	2	89191	$17.40	8
20A		15A		29291			89291		
20A		20A		29292			89292		
30A		20A		29392			89392		
30A		30A		29393			89393		
40A		15A		29491			89491		
40A		20A		29492			89492		
40A		30A		29493			89493		
40A		40A		29494			89494		
50A		15A		29591			89591		
50A		20A		29592			89592		
50A		30A		29593			89593		
50A		40A		29594			89594		
50A		50A		29595			89595		

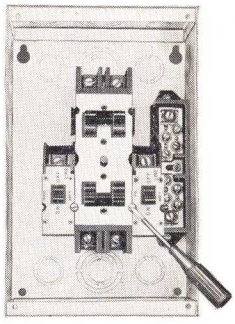
Single Pole	Capacity	Catalog No.	List Price
1	15A	115A	$1.90
1	20A	120A	1.90
1	30A	130A	1.90
Handle Ties		40HT	.20 each 10 in Std. Pkg.

*Specify surface or flush. Also Available in Rain-tight Enclosures.

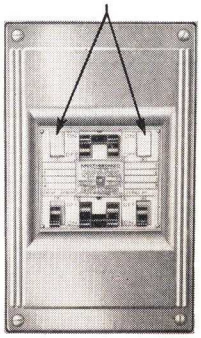
Basic Device
Cover Removed



Easy to Ad-On
Circuits

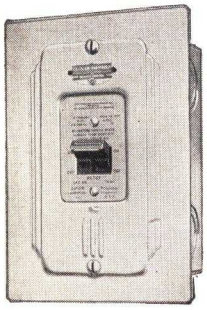


Space for
More Circuits

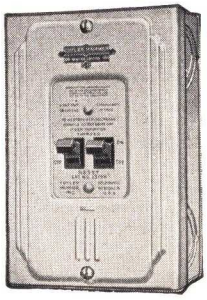


CUTLER-HAMMER MULTI-BREAKERS

TYPE MO—25 AMP. FRAME—SEPARATE TRIP



1 Single Pole or Double Pole Flush Mounting Type MO Multi-Breaker



2 Single Pole, Surface Mounting Type MO Multi-Breaker

C-H Multi-Breakers are for A.C. service only. They are arranged for single phase 2-wire, 115 volts solid neutral service and for single phase 3-wire, 115-230 volts solid neutral service. They are also available for 2, 3 and 4-wire insulated neutral and for 2-wire no neutral 115-230 volt A.C. service.

Insulated (Groundable) S/N

Solid Mains—35 Amp. Maximum

Main or Br. Cir.	Circuit Ratings	2-Wire S/N 115 V. A. C. *Cat. No.	List Price	3-Wire S/N 115/230 V. A.C. *Cat. No.	List Price
1	1-15A	131110	$3.00	131611	$4.50
	1-20A	131120	3.00	131622	4.50
	1-25A	131130	3.00	131633	4.50
2	2-15A	131711	4.50	131711	4.50
	1-15A, 1-20A	131712	4.50	131712	4.50
	2-20A	131722	4.50	131722	4.50
	2-25A	131733	4.50	131733	4.50
4	4-15A			181111	11.00
	4-20A			182222	11.00
	4-30A			183333	11.00
	3-15A, 1-20A			181112	11.00
	2-15A, 2-20A			182211	11.00
	2-15A, 2-30A			183311	11.00
	1-15A, 1-20A, 2-30A			183312	11.00

2-Pole 115/230 Volts A.C.

Main or Br. Cir.	Circuit Ratings	NO NEUTRAL *Cat. No.	List Price
1	1-15A	111611	$4.00
	1-20A	111622	4.00
	1-25A	111633	4.00

Add "S" after Catalog Number for Surface Type.

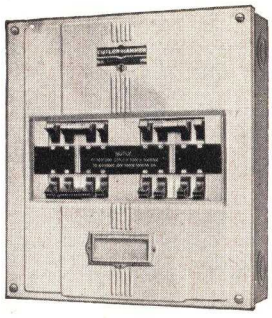
Add "F" after Catalog Number for Flush Type.

*The first two digits in Catalog Number designate Box Number; for example, Cat. No. 131110 is Box No. 13.

CUTLER-HAMMER MULTI-BREAKERS



2 Pole Type M1



16 Pole Type MB

Type M—3-Wire S/N 115/230 Volts A.C.
Insulated (Groundable) S/N—Solid Mains—50 Amp. Max.

Br. Cir.	*Lighting Circuits	†Range, Water Heater and Sub-Feed Cir.	Cat. No.	Price	Box No.
1		1-35	16744	$8.50	23
		1-50	16755	8.50	23

Double Pole—No Neutral for Water Heater
Solid Mains—50 Amp. Max.

1		1-35	16944	8.00	21
		1-50	16955	8.00	21

Type MB—3-Wire S/N 115/230 Volts A.C.
Insulated (Groundable) S/N—Solid Mains—70 Amp. Max.

3	2-15		1-35	35021-41	12.00	3
	2-15		1-50	35021-51	12.00	3
4	2-15	1-20	1-35	35022-46	15.00	3
	2-15	1-20	1-50	35022-56	15.00	3
	3-15		1-35	35031-41	13.00	3
	3-15		1-50	35031-51	13.00	3
	2-15	1-20	1-35	35031-46	13.00	3
	4-15			35040-01	12.00	3
	4-20			35040-02	12.00	3
5	3-15	1-20	1-35	35041-46	14.00	3
	3-15	1-20	1-50	35041-56	14.00	3
	2-15	2-20	1-35	35041-47	14.00	3
	2-15	2-20	1-50	35041-57	14.00	3
6	5-15		1-35	35051-41	15.00	3
	4-15	1-20	1-50	35051-56	15.00	3
	6-15			35060-01	14.00	3

Insulated (Groundable) Solid Neutral—Solid Mains
1-8 Circuit 70 Amp. Max.—9-16 Circuit 100 Amp. Max.

7	6-15		1-35	35061-41	17.00	3
	7-15			35070-01	15.00	3
8	8-15			35080-01	17.00	3
	8-20			35080-02	17.00	3
	7-15	1-20		35080-21	17.00	3
	6-15	2-20		35080-22	17.00	3
9	8-15		1-50	57081-51	35.00	5
10	10-15			57100-01	35.00	5
	10-20			57100-02	35.00	5
12	8-15		4-15	57084-11	44.00	5
	12-15			57120-01	38.00	5
	12-20			57120-02	38.00	5
14	14-15			57140-01	42.00	5
	14-20			57140-02	42.00	5
16	16-15			57160-01	44.00	5
	16-20			57160-02	44.00	5

CUTLER-HAMMER MULTI-BREAKERS

GENERAL NOTES

Add "F" after catalog number for gray enamel flush cover and case.

Add "S" after catalog number for gray enamel surface cover and case.

Indoor type multi-breakers in boxes Nos. 3 and 5 are packed and labeled as follows: (Example—Catalog No. 35021-41-S) Box in one carton (Labeled No. 3). Interior and front in one carton (Labeled 5021-41-S). All other devices are packed in one carton.

For raintight devices **without** hubs, in boxes Nos. 3, 21 and 23, prefix catalog number with letter "R" and add **$4.00** to list price.

For raintight devices **with** conduit hubs in boxes Nos. 3, 21 and 23, prefix catalog number with letter "R" and letter for hub designation, add **$4.00** to list price addition for hubs as shown below.

Conduit Hubs for Raintight Boxes

Size Hub	One in Top Prefix	One in Top Price	Two in Top Prefix	Two in Top Price	One Top and Bottom Prefix	One Top and Bottom Price
¾"	C	**$1.20**	P	**$2.40**	J	**$2.40**
1 "	D	**1.20**	Q	**2.40**	K	**2.40**
1¼"	E	**1.20**	T	**2.40**	L	**2.40**
1½"	G	**2.00**	--	------	--	------
2 "	H	**2.00**	--	------	--	------

Box Dimensions and Shipping Weights

Box No.	Type	Dimensions, Inches Height	Width	Depth	Shpg. Wt. Lbs.
3	Indoor	11⅛	6⅝	3⅜	10
5	Indoor	13⅛	12⅛	4⅛	19
3	Raintight	11¼	6⅝	4½	12
21–23	Indoor	9	4⅞	3⅛	6
21–23	Raintight	9⅜	4⅞	3½	7

GENERAL INFORMATION

C-H Multi-Breakers are for A.C. service only. They are arranged for single phase 2-wire, 115 volts solid neutral service and for single phase 3-wire, 115-230 volts solid neutral service. They are also available for 2, 3 and 4-wire insulated solid neutral and for 2-wire no neutral 115-230 volt A.C. service.

Circuit capacities are 15 to 100 amperes. Solid mains capacities are 35, 50, 70 and 100 amperes.

Main breakers in certain types of MB devices can be supplied. Prices on request.

Type MB devices in No. 5 box with 100 amp. mains with less than 9 poles can be supplied. Prices on request.

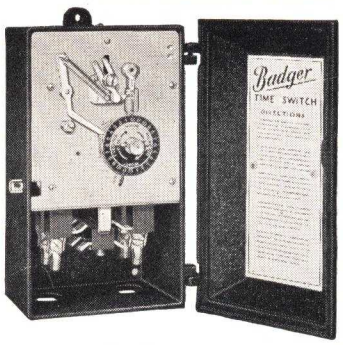
An individual single polarity unit block in the type MB devices is limited to a maximum of 135 amperes.

CIRCUIT RATINGS — *Lighting Circuits 2-Wire S/N 115 Volts A.C. Single Pole Breaker and Neutral.

†Range, Water Heater and Sub-Feed Circuits, 3-Wire S/N 115/230 Volts A.C. Double Pole Breaker (Separate Trip and Neutral).

RELIANCE TIME SWITCHES

BADGER SYNCHRONOUS ELECTRIC AUTOMATIC TIME SWITCHES



This model is specifically a heavy duty time switch with a capacity great enough to meet a wide variety of requirements. A slow speed heavy duty self-starting synchronous motor consuming 4 watts comprises the time element and assures absolute accuracy. Standard motors are for use on 110-125 volts, 60 cycle A.C., but 50 cycle and 250 volt motors can be furnished at same prices. Prices for other voltages and frequencies on application.

The four types listed below are comprised of different combinations of single and double pole switches and enclosed in cast aluminum or 18 gauge sheet steel cases. Cast aluminum case is fully gasketed, weatherproof and padlockable. Two holes in bottom for ¾-inch conduit. Size overall 6¼ x 9¾ x 4¾ inches deep.

Sheet steel case is not gasketed or padlockable. Combination knockouts for ¾ and 1-inch conduit at bottom, sides and back. Size 5½ x 10 x 4¼ inches deep. All types are single throw (straight "on" and "off").

Type	Poles	Switch Capacity	Case	Price Each With Cut-out	Price Each Without Cut-out
M1	1	50A., 125V.	*	**$21.00**	**$20.00**
M2	2	50A., 125/250V.	*	**23.00**	**22.00**
RM	1	50A., 125V.	†	**26.00**	**25.00**
RM5	2	50A., 125/250V.	†	**26.50**	**25.50**

*18 Ga. Steel. †Cast Aluminum.

For four trip hands for morning and evening operation add **$1.00** to price. When four trip hands are used there must be at least 8 hours between the two ON hands.

MODEL W SYNCHRONOUS ELECTRIC AUTOMATIC TIME SWITCHES



An extremely simple, compact, economical, and dependable time switch which, with only five types, covers practically every requirement.

Heavy silver contacts are rated at 30 amp. per pole at 125-250 volts. Case is of 20 gauge steel finished in hammerloid enamel. Combination knockouts for ½- and ¾-inch conduit are furnished at back, bottom and sides of case. Size 4 x 7 x 4 inches deep.

Description	Type	List	Astronomic "On" Trip‡ Type	Astronomic "On" Trip‡ List
S.P., S.T.	W-11	**$14.50**	W-11A	**$19.50**
D.P., S.T.	W-22	**15.50**	W-22A	**20.50**
D.P., 2-Circuit	W-33	**20.00**	.....	.....

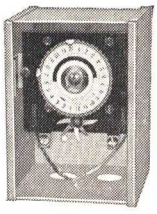
‡The "on" operation corrects itself daily to correspond to sunset time.

SELF STARTING ALL-ELECTRIC TORK CLOCKS

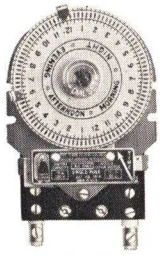
For Use on Alternating Current Only

For Turning Anything Electrical On and Off Regularly

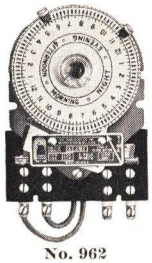
Now timed and powered by a more rugged self-starting synchronous motor and gear train to provide an even greater length of service and dependability. All models in steel cases, 9 x 5 x 4 inches.



No. 948



No. 191



No. 962

LITTLE GIANT MODELS

Cat. No.	ON and OFF Daily	List Price
	24 Hour Dial, Operations Adjustable in 15 Minute Steps	
948	30 Ampere, Single Pole Torkmaster	$ 9.50
191	20 Ampere, Single Pole (2200 watts)	13.00
1191	35 Ampere, Single Pole (3800 watts)	14.00
962	20 Amperes per Pole, Double Pole (4400 watts, divided)	15.00
1962	35 Amperes per Pole, Double Pole (7500 watts, divided)	16.00
197	6 Ampere, Single Pole, Double Throw, Common Switch Circuit	16.00
967	10 Ampere, Single Pole, Double Throw, Separate Switch Circuits	16.00

SIXTY-MINUTE AND FOUR-HOUR MODELS

Adjustable in 1 or 2½ Minute Steps Respectively

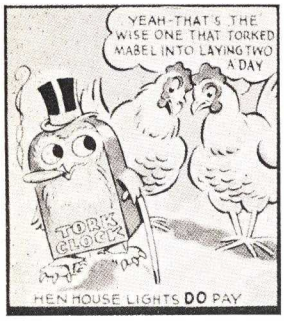
6191	60-Minute Repeating Timer for Hourly Control, Single Pole, 20 Ampere	15.00
6191X	**Single-Set Timer; 60-Minute Maximum Interval, Single Pole,** 20 Ampere	15.00
4191	4-Hour Model, Single Pole, 20 Ampere	16.00
4191X	Single-Set Timer; 4 Hour Maximum Interval, Single Pole, 20 Ampere	16.00

To order clocks equipped with two pair of operating arms add the letter "D" to the catalog number and **$0.50** to the list price.

For three ON and three OFF operations, add the letter "T" and **$1.00** to the price.

If four, five or six ON and OFF operations are desired, special dials can be made having fixed OFF pins and movable ON arms; add the letter "X" to the catalog number and **$3.00** to the price. These fixed OFF pins cannot be placed closer together than two hours apart and we must know exactly at what times they should operate.

MODELS FOR POULTRY HOUSE LIGHTING FOR REGULATED A.C. ONLY



The purpose of hen house lighting is to provide a fifteen hour day during the long winter nights to produce more eggs during the high price season. Laying hens are great creatures of habit and they almost immediately adapt themselves to artificial lighting. It is, of course, immaterial to the stock whether their days are longer in the morning or the evening, or both. The TORK CLOCKS described below will offer the poultryman the type of service most suitable to his particular locality or fancy.

Morning Light Only

Those who prefer morning lighting only seem to be in the majority. This is undoubtedly because the simplest type of lighting arrangements are required as well as the lowest priced TORK CLOCK. The morning light-up time is adjusted once or twice each month to keep in step with earlier sunset time until mid-winter when the morning lighting may come on as early as 3 A. M. Those favoring this type of operation insist that the stock is better off to be scratching and feeding during the coldest part of the night. For this type of service use our regular models listed above, depending upon the electrical capacity required.

Morning Light Only — **No. 191**, 20 ampere, single pole ..... list **$13.00**
No. 962, 20 ampere, double pole ..... list **15.00**

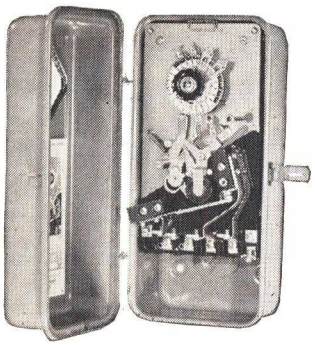
Bright and Dim Controls

Those preferring evening lighting must provide means of dimming the regular lighting or a separate circuit of small capacity lamps to induce the stock to safely roost before the lights go out. Installations of this sort vary according to the size of the plant. It has the added advantage of making the hen's work day more nearly parallel that of the owner so that proper supervision is more easily provided. NO RESISTANCE for dimming is included with this model which is a special two-circuit type for hen house use. Complete instructions and wiring diagrams are included with every model.

Bright and Dim Control — No. 5191P
15 Amp., standard steel case. Sequence — A.M. DIM-BRI-OFF — P.M. BRI-DIM-OFF ..... list **$18.50**

SANGAMO TIME SWITCHES

TYPE L—SYNCHRONOUS



Type L
(Supersedes KA)

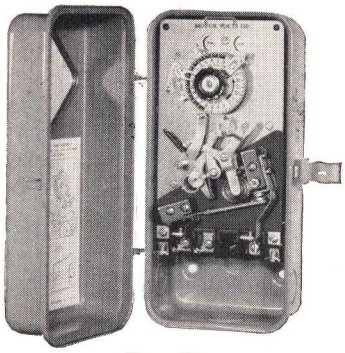
Sangamo Hysteresis, high-torque self-starting motor, slow speed 450 r.p.m. unaffected by extreme temperatures.

Solid silver contacts, conservatively rated 35 amperes on Types 11, 12, 21. Two pairs of setting levers, 90 minutes between "off" and "on," 30 minutes between "on" and "off." Reversible time limits if ordered. Gasket sealed, rain proof case.

Dimensions: 10¼ inches high, 5¼ inches wide, 4 inches deep overall. Shipping weight, approximately 7 lbs.

Type	Poles	Throw	Amperes	List Price
L-11	Single	Single	35	**$26.00**
L-21	Double	Single	35	**28.50**
L-31	Triple	Single	6	**32.00**
L-12	Single	Double	35	**28.50**
L-22	Double	Double	6	**31.00**
L-32	Triple	Double	6	**34.00**
LZ,	Standard Astronomic Dial, add.....			**$11.00**
LH,	"On" Omitting Device, add.....			**2.00**
LF,	"Off" Omitting Device, add.....			**2.00**
LHE,	Advance Time Cutoff, add.....			**7.00**
LO,	Weatherproof-windowless Case, add			**20.00**
LR,	Extra Setting Levers, per pair.....			**.50**
LG,	Reverse Time Limits, no extra charge.			

TYPE W—SYNCHRONOUS CARRYOVER



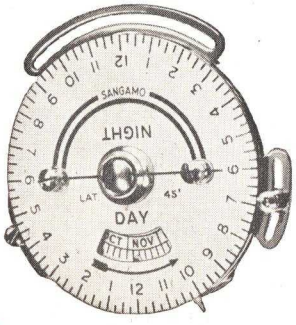
Type W
(Supersedes VSW)

Type W, by combining synchronous timing with reserve spring clock operation, provides accurate timing during power shortages up to 10 hours and eliminates necessity of resetting of dial.

A new positive action thermal-blocking device releases the reserve timing movement during service interruptions. When power is restored, the synchronous motor resumes the timing operation and re-winds the spring of the clock movement. In all other respects, the specifications of Type L apply.

Type	Poles	Throw	Amperes	List Price
W-11	Single	Single	35	**$46.00**
W-21	Double	Single	35	**48.50**
W-31	Triple	Single	6	**52.00**
W-12	Single	Double	35	**48.50**
W-22	Double	Double	6	**51.00**
W-32	Triple	Double	6	**54.00**
WZ,	Standard Astronomic Dial, add.....			**$11.00**
WH,	"On" Omitting Device, add.....			**2.00**
WF,	"Off" Omitting Device, add.....			**2.00**
WHE,	Advance Time Cutoff, add.....			**7.00**
WO,	Weatherproof-windowless Case, add			**20.00**
WR,	Extra Setting Levers, per pair.....			**.50**
WG,	Reverse Time Limits, no extra charge.			

Standard motors: Specify 120 or 240 volts, 50 or 60 cycle.



ASTRONOMIC DIAL

When a Sangamo Time Switch is fitted with an Astronomic Dial it will automatically turn lights "on" at sunset and "off" at sunrise, compensating progressively day by day for the change in seasons. Or, this dial permits the "off" operation at any time between 9:30 p.m. and 2:15 a.m.

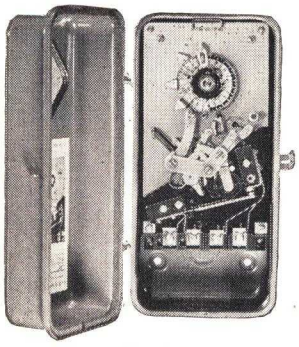
Ideal control for: outdoor advertising, street-, flood-, air beacon-, light house-, and yard-lighting.

Standard latitudes 30°, 35°, 40°, 42½° and 45° add **$11.00.**

Special latitudes 20°, 27½°, 32½°, 37½°, 50° and 52° add **$15.00.**

SANGAMO TIME SWITCHES

2-CIRCUIT TYPES LY AND WY
(Supersedes KAY and VSWY)



Type LY

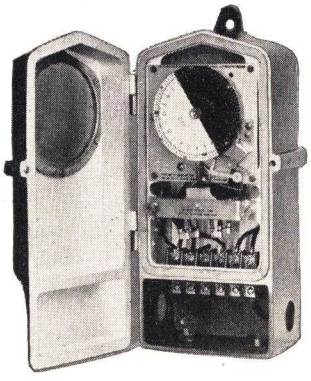
The synchronous Type L and carry-over Type W in two circuit construction. The "on" and "off" operations of each circuit are independent, (except when Omitting Device or Astronomic Dial is required). Equipped with 2 pairs of tripping levers.

Type	Description	Amp.	List Price
LY-11	Two Circuit	35	**$34.00**
WY-11	Two Circuit	35	**54.00**

LYZ or WYZ, Standard Astronomic Dial, add **$11.00**
LYH or WYH, "On" Omitting Device, add..... **2.00**
LYF or WYF, "Off" Omitting Device, add..... **2.00**
LYO or WYO, Weatherproof-Windowless Case, add **20.00**
LYR or WYR, Extra Setting Levers, per pair..... **.50**
LYG or WYG, Reverse Time Limits, No extra charge.
*Standard Motors: Specify 120 or 240 volt, 50 or 60 cycle.

TYPE TC—ELECTRICALLY WOUND A.C. OR D.C.

Built for extreme precision. Equipped with full eleven-jeweled escapement. Both, time train and switch mechanism will combine to function during current interruptions, up to twenty hours. Can be set from 1 to 96 "on" and "off" operations in 24 hours.



Type TC

Alternating Current

Form	Poles	Throw	A.C.—120 V. Amp.	A.C.—120 V. List	A.C.—240 V. Amp.	A.C.—240 V. List
TC-11	Single	Single	30	**$92.00**	30	**$92.00**
TC-12	Single	Double	30	**94.00**	30	**94.00**
TC-21	Double	Single	30	**96.00**	30	**96.00**
TC-22	Double	Double	30	**100.00**	30	**100.00**
TC-31	Triple	Single	10	**98.00**	10	**98.00**
TC-32	Triple	Double	10	**116.00**	10	**116.00**

Direct Current

Form	Poles	Throw	D.C.—120 V. Amp.	D.C.—120 V. List	D.C.—240 V. Amp.	D.C.—240 V. List
TC-11	Single	Single	30	**$100.00**	15	**$100.00**
TC-12	Single	Double	30	**102.00**	15	**102.00**
TC-21	Double	Single	30	**104.00**	15	**104.00**
TC-22	Double	Double	30	**108.00**	15	**108.00**
TC-31	Triple	Single	10	**106.00**	5	**106.00**
TC-32	Triple	Double	10	**124.00**	5	**124.00**

Specify voltage and frequency. 6⅛" wide, 13 $\frac{7}{32}$" high, 4 $\frac{17}{32}$" deep. Shipping weight, 20 pounds.

Special Tubes. The TC-12 and TC-22 can be supplied at the same prices with special U-shaped tubes with a rating of 10 amperes, 120 volts, or 6 amperes, 240 volts; the tubes being so constructed that one circuit is broken before the other circuit is made. When specified, the designation becomes TCU-12, TCU-22, add **$5.00** list.

Direct Current Motors. The 240-volt direct current motor is supplied with a resistor; the motor being the same as the 120 volt.

SANGAMO TIME SWITCHES

TYPE S TIME SWITCH

External Manual Operation



Type S Time Switch

Small and attractive, yet accurate and rugged, the Type S Time Switch represents a modern adaptation of a tried and proven design. Available in two types: Type S with one "on" and one "off" operation; Type SR with two "on" and two "off" operations.

Synchronous and self-starting, low-speed 450 r.p.m. motor operates on 120 volts, 60 cycles, A.C. The single pole, single throw, conservatively rated 15 amp. pure silver contacts are operated by a patented lever action, providing quick-break.

The steel case is color-matched to the molded cover. A conduit knockout on the bottom and pry-out at the back of the case facilitates easy wiring. Has ample wiring space. The case is designed for mounting on any standard switchbox, or surface mounting on any wall.

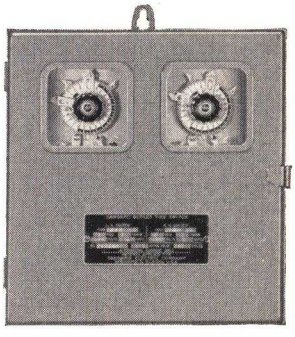
Approximate dimensions: 3 inches wide, 5⅜ inches high, 3 inches deep. Colors: Brown or Ivory.

Type	Number of Operations	Price Each—Brown	Price Each—Ivory
S	One "On" and one "Off"....	**$13.45**	**$13.70**
SR	Two "On" and two "Off"....	**13.70**	**13.95**
SJ‡	One "On" and one "Off"....	.....	**15.45**

‡The S switch with plug-in cord and built-in receptacle for portable convenience. Available in ivory only.

Specify color and type when ordering.

DUPLEX TYPE LD—(Supersedes KADH)



Type LD

The duplex time switch consists of two separate Type L switch units operated by the same timing mechanism. The unit has the same specifications as outlined in the description of the Type L. The sequence of "on" and "off" operations of one unit can be set entirely independent of the switching operation of the other.

Type	Poles	Throw	Amp.	List Price
LD-11	Single	Single	35	**$60.00**
LD-21	Double	Single	35	**65.00**
LD-12	Single	Double	35	**65.00**
LD-22	Double	Double	6	**70.00**

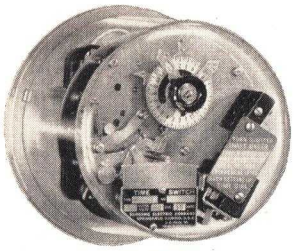
Dimensions: 9½ inches wide; 10¼ inches long; 3¾ inches deep. Shipping weight 14 lbs. The wide flexibility of operating combinations makes the duplex admirably suited to special control applications. All special features, of the Type L, except weatherproof case, can be applied independently to either or both of the duplex units.

*Standard Motors: Specify 120 or 240 volt, 50 or 60 cycle.

SANGAMO TIME SWITCHES

TYPE LS SYNCHRONOUS—TYPE WS SYNCHRONOUS CARRYOVER

Synchronous Socket Types



Type WS

The Type LS with self-starting synchronous motor is built for mounting on meter sockets the same as used for mounting socket type watthour meters. Its operation is identical as that of the Type L time-switch, except that the time dial can be set with a screw driver through a sealable opening in the cover. The Type WS combines the precision of synchronous motor timing with the carry-over feature of the Type W time-switch. Type WS provides two openings in the glass cover, the upper for setting of the time, the lower for actuating the balance lever.

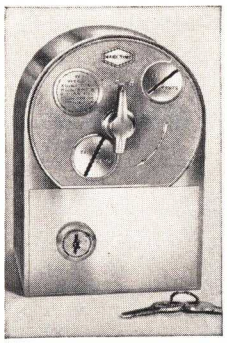
Type	Poles	Throw	Amp.	List* Price
LS-11	Single	Single	35	**$29.50**
LS-21	Double	Single	35	**32.00**
LS-12	Single	Double	35	**32.00**
WS-11	Single	Single	35	**49.00**
WS-21	Double	Single	35	**51.50**
WS-12	Single	Double	35	**51.50**

*Standard Motors: Specify 120 or 240 volt, 50 or 60 cycle.

All special features of the Types L and W (see a preceding page) can be applied to the Types LS and WS Switches.

MARK-TIME SWITCHES

COIN METER NO. 3275

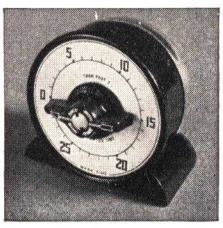


Used by apartment houses for laundry equipment—washers and ironing machines. Also for sun lamps, "Gym" devices, night tennis courts, amusement park devices, for current in tourist camps. Takes dimes for 20 minutes and quarters for an hour. Other timings available.

Also obtainable for AC operation only, at same price.

No. **3725** AC-DC Coin Meter **$17.60**

MARK-TIMERS



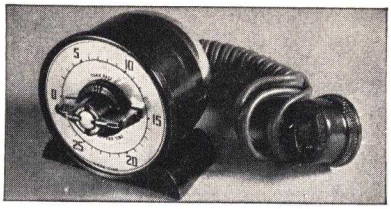
Bell gives one lively musical chime at any time selected. An ideal time reminder and memory jogger for kitchens and other household uses; business and professional offices; hospitals, schools, etc. Non-electric. Every place a clock is used, a Mark-Timer is needed to tell when "time's up."

No. **56** Black — 1 hour **$4.15**
No, **57** Black — ½ hour **4.15**
No. **58** Black — 15 minutes **4.15**
No. **59** Black — 5 minutes **4.25**
No. **60** Black — 60 seconds **4.95**

MARK-TIME SWITCHES

MARK-TIME PORTABLE SWITCHES

Controls the time operations of any electrical appliance, device or circuit. Black bakelite case. Brushed chromium dial. Equipped with 6 feet rubber extension cord and series tap plug. Single-pole, single-throw. Current rating — 10 amp., 125 volts; 5 amp., 250 volts; A.C. or D.C., any cycle.



Turns current "off" at any time up to maximum time interval of switch. Used for heating pads, washing machines, electrical kitchen appliances, air conditioners, fans, room heaters, beauty shop machines, industrial machinery.

No. **5501** 15 minute "off" switch..... **$6.55**
No. **5502** 30 minute "off" switch..... **6.55**
No. **5503** 60 minute "off" switch..... **6.55**

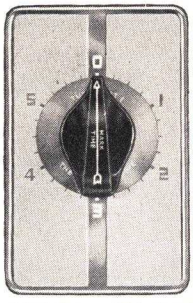
These switches can also be made up in 15 amperes at **$1.65** additional.

No. 4505 5-HOUR "ON" OR "OFF" SWITCH

Turns current "on" or "off" at any time up to a maximum of five hours. 10 amperes. Used for radio sets, ventilating fans, neon signs, electric roasters, refrigerators, oil burners, battery chargers, garage heaters, poultry and dairy applications, and all uses listed under No. 5502.

No. **4505** 5-hour "on" and "off" switch....**$11.95**
No. **4505B** Same as above except 15 amperes **13.60**

No. 800 SERIES MERCURY SWITCH



Wall type unit which may be used to provide delayed action for porch or garage lights where it is desired to provide illumination for any predetermined time interval. Mechanically operated, wound and set simultaneously for time by merely turning the knob clockwise. Rugged and durable, this switch has full 10 amp. capacity and is rated for continuous duty. Ivory finish. Plate sets flush with wall in outlet box 2½ inches or more deep.

No. **800** Series Mercury Switch in any timing of 3, 5, 15, 30 or 60 minutes.....each **$6.55**

A-9-S PHOTOGRAPHIC TIMER



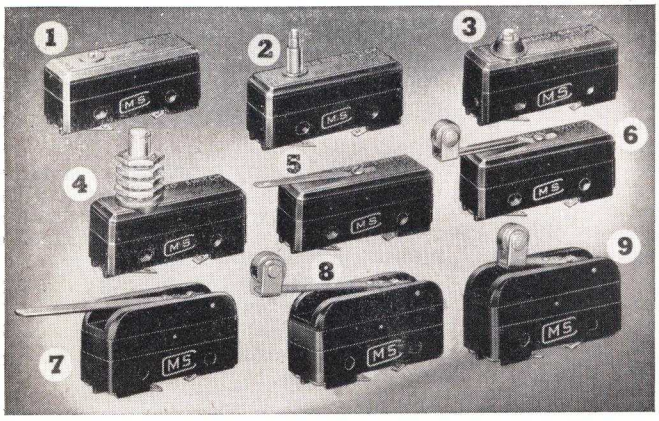
An attractive unit mounted in black bakelite case timed for 60 minutes, and easily portable for service anywhere in the home. Excellent for timing cooking operations, phone calls, sun lamp treatments, etc. Sounds lingering chime note at end of set time. Adjustable stop permits resetting by sense of touch.

Price, No. **A-9-S-4** (60 sec.).....each **$4.45**

MICRO PRECISION SWITCHES

MICRO Precision Switches are unique and patented snap-action switch mechanisms enclosed within precisely molded plastic cases. Designed for use in alternating current circuits in industrial, commercial, and domestic applications. Used as limit, interlock, and control switches. They are single pole, double-throw, normally-open, and normally-closed.

Most MICRO Precision Switches are listed by Underwriters' Laboratories and Canadian Standards Association for 125 volts — 10 amperes, 250 volts — 5 amperes, and 460 volts — 3 amperes, a-c.



The nine actuator designs illustrated are (1) Pin, (2) S, (3) D, (4) Q1, (5) L, (6) L2, (7) W, (8) W2, (9) W22

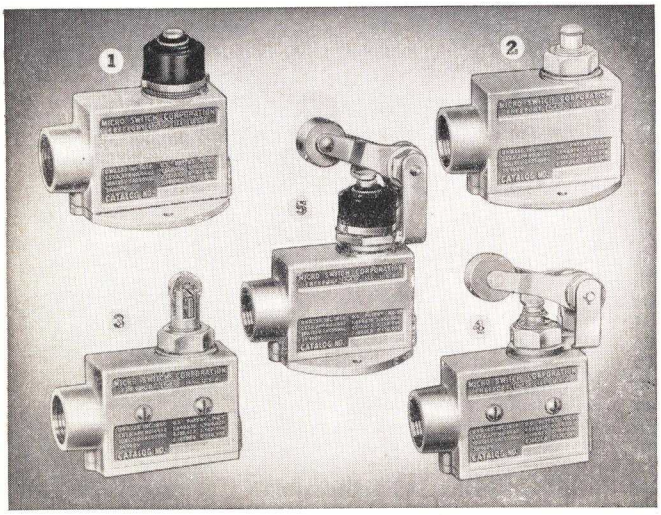
MICRO Basic Switches

Basic Switches are the foundation of the entire line of MICRO SWITCH products. Basic Switches are the switching elements assembled within Die Cast Enclosed Switches, Explosion-Proof Switches, Splash-Proof Switches, and type LN Limit Switches.

MICRO General Purpose Basic Switches

Nine popular designs of Basic Switches differ in respect to actuators, operating means, and characteristics. For top accuracy actuators are integral parts of the switch. The "Pin" plunger design measures only $\frac{1}{16}$ x $\frac{37}{32}$ x $1\frac{1}{16}$ inches, and weighs less than one ounce. Small operating force and small operating movement.

MICRO DIE CAST ENCLOSED SWITCHES



Five actuator types: (1) N, (2) Q, (3) Q9, (4) Q2, (5) N2

Die Cast Enclosed Switches combine ruggedness, light weight, compactness, high electrical capacity, reliability, ease of mounting, and long operation life. They are engineers' choice for electrical controls in industrial equipment for use as safeties, limits, and interlocks.

Types "N" and "N2" with synthetic rubber sealed plunger and gasketed bottom plate are designed for use in applications where oil, water, dust, or abrasives are present and may be in contact with the switch.

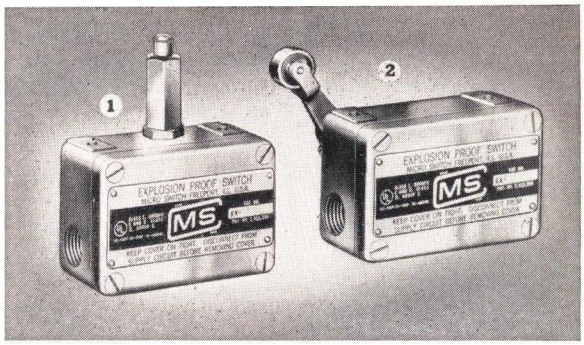
Die Cast Enclosed Switches, which have Basic Switches as switching element, are available in four actuator designs with a choice of bottom or side mounting. These metal housings, 1 x $2\frac{13}{32}$ x $3\frac{1}{64}$ inches, provide protection, conduit attachment, and actuating means; weight, ½ lb.

MICRO PRECISION SWITCHES

MICRO Explosion-Proof Switches

MICRO Explosion-Proof Switches are for use in hazardous atmospheres, as limit switches, safety switches, control switches, and interlocks. These switches are listed by Underwriters' Laboratories for use in explosive atmospheres, Class I, Groups C and D and Class II, Group G. Thousands are in service in chemical plants, explosives and powder plants, petroleum refineries, and grain elevators.

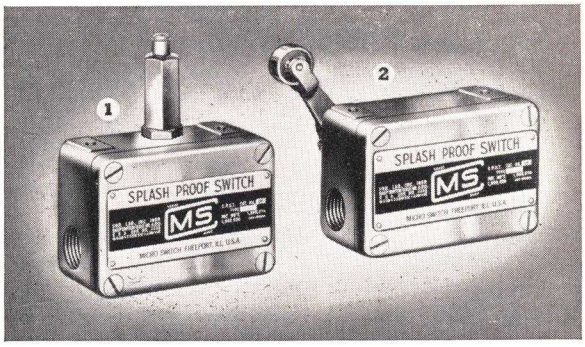
MICRO Explosion-Proof Switches are unique in ruggedness, high electrical capacity, long life, accuracy of repeat operation, and ease of installation. Housing measures $1\frac{31}{32}$ x $2\frac{55}{64}$ x $3\frac{21}{32}$ inches; weight, 2.4 pounds.



Two actuator types: (1) EX-Q, (2) EX-AR

MICRO Splash-Proof Switches

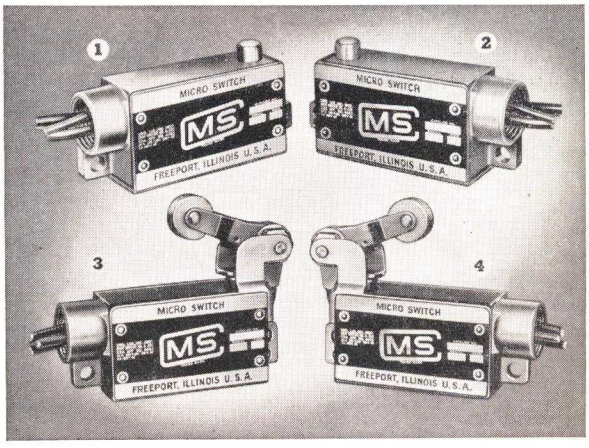
MICRO Splash-Proof Switches are heavy metal housed switches for use in locations where the splash of oil, water, or coolants affect less adequately housed switches. Used where switching unit must have long electrical life, accuracy of operation, and ability to withstand severe use. Measures 2 x $2\frac{55}{64}$ x $3\frac{21}{32}$ inches, and weighs $2\frac{1}{2}$ pounds.



Two actuator types: (1) OP-Q, (2) OP-AR

MICRO Type LN Limit Switches

Type LN and LN-2 Limit Switches are for general industrial use as limit, safety, and control switches where switches must have durability, compactness, accurate repeatability, and ease of replacement. Especially useful in locations exposed to dust, dirt, abrasives, and to splash of oil and water. Available in right and left-hand designs. Leads are sealed in conduit hub, cover plate gasketed, and plunger operates through sealed diaphragm. LN-2 Roller Arm Actuator adjustable horizontally and vertically. Measures 1 x $1\frac{21}{32}$ x $4\frac{1}{16}$ inches. Weighs $\frac{3}{4}$ pound.



Two actuator types: (1) LN right hand, (2) LN left hand, (3) LN-2 left hand((4) LN-2 right hand

BULLDOG LIGHTING PANELS AND CABINETS

TYPES
"NTP3" and "NTC3"

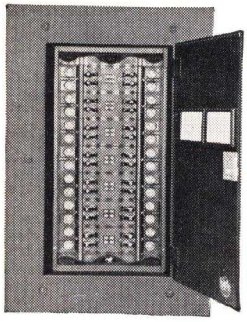
Single Fusing

4 TO 40
CIRCUITS

SINGLE DOOR CONSTRUCTION

3/2 Wire, Solid Neutral

MODIFIED SUPERBA TYPE PANELS*
ONE FUSE AND ONE SINGLE POLE TOGGLE SWITCH PER BRANCH CIRCUIT



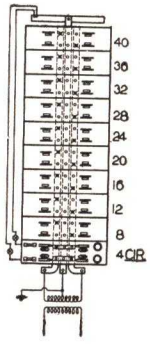
Plug Fuse Type

MAINS:
3 Wire, 125/250 Volt.

BRANCHES:
2 Wire, 125 Volt, Single Pole, 30 Amp.

BOXES:
Code Gauge Galvanized Steed.
20" Wide, 5½" Deep, 4" Gutters.
Height in Inches indicated by numerals in Box Catalog Numbers shown in tables below.

FRONTS:
Code Thickness Steel, Black Finish, Flush Spring Locks. **Flush Fronts will be furnished unless Surface Type specified on order.**

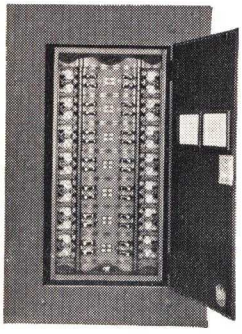


Wiring Diagram

Catalog Numbers and List Prices include complete Panel (less fuses) and Cabinet

MAINS: LUGS ONLY, SOLID NEUTRAL

No. of Circuits	Amp. Mains	PLUG FUSE BRANCHES Catalog Nos.	Box Cat. Nos.	List Each	CART. FUSE BRANCHES Catalog Nos.	Box Cat. Nos.	Weight Each Lbs.
4	30	NTP304L	W14	$ 62.00	NTC304L	W14	35
8	60	NTP308L	W17	78.00	NTC308L	W17	46
12	60	NTP312L	W20	94.00	NTC312L	W20	57
16	100	NTP316L	W23	109.00	NTC316L	W23	68
20	100	NTP320L	W26	125.00	NTC320L	W26	79
24	200	NTP324L	W29	140.00	NTC324L	W29	90
28	200	NTP328L	W32	156.00	NTC328L	W32	100
32	200	NTP332L	W35	172.00	NTC332L	W35	111
36	200	NTP336L	W41	187.00	NTC336L	W41	135
40	200	NTP340L	W44	203.00	NTC340L	W44	150



Cart. Fuse Type

MAINS: SAFtoFUSE, SOLID NEUTRAL

4	30	NTP304F	W23	$ 77.00	NTC304F	W23	50
8	60	NTP308F	W26	92.00	NTC308F	W26	62
12	60	NTP312F	W29	108.00	NTC312F	W29	73
16	100	NTP316F	W32	138.00	NTC316F	W32	84
20	100	NTP320F	W35	153.00	NTC320F	W35	96
24	200	NTP324F	W44	205.00	NTC324F	W44	134
28	200	NTP328F	W47	221.00	NTC328F	W47	147
32	200	NTP332F	W50	237.00	NTC332F	W50	160
36	200	NTP336F	W56	252.00	NTC336F	W56	173
40	200	NTP340F	W59	268.00	NTC340F	W59	186

*SUPERBA Type Units WITHOUT individual fuse compartment doors.

BULLDOG LIGHTING PANELS AND CABINETS

TYPES
"NTP3-D" "NTC3-D"
"SNTP3-D" "SNTC3-D"

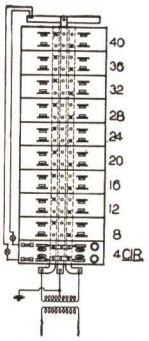
Single Fusing

EXTRA DOOR OVER FUSES

3/2 Wire, Solid Neutral

4 TO 40 CIRCUITS

MODIFIED SUPERBA AND STANDARD SUPERBA TYPE PANELS ONE FUSE AND ONE SINGLE POLE TOGGLE SWITCH PER BRANCH CIRCUIT



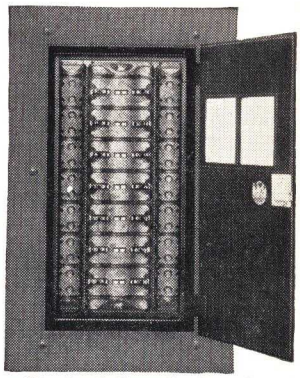
Wiring Diagram

MAINS:
3 Wire, 125/250 Volt.

BRANCHES:
2 Wire, 125 Volt, Single Pole, 30 Amp.

BOXES:
Code Gauge Galvanized Steel.
20″ Wide, 5½″ Deep, 4″ Gutters.
Height in Inches indicated by numerals in Box Catalog Numbers shown in tables below.

FRONTS:
Code Thickness Steel, Black Finish, Flush Spring Locks. **Flush Fronts will be furnished unless Surface Type specified on order.**


Standard Superba Panel with Lugs Only Mains

Catalog Numbers and List Prices include complete Panel (less fuses) and Cabinet.

MAINS: LUGS ONLY, SOLID NEUTRAL

No. of Circuits	Amp. Mains	MODIFIED SUPERBA*—Two Door Front: PLUG FUSE BRANCHES Catalog Nos.	Box Cat. Nos.	CART. FUSE BRANCHES Catalog Nos.	Box Cat. Nos.	List Each	STANDARD SUPERBA TYPE (Individual Doors over Fuses): PLUG FUSE BRANCHES Catalog Nos.	Box Cat. Nos.	CART. FUSE BRANCHES Catalog Nos.	Box Cat. Nos.	Wgt. Each Lbs.
4	30	NTP304LD	W14	NTC304LD	W14	$ 83.00	SNTP304LD	W14	SNTC304LD	W14	35
8	60	NTP308LD	W17	NTC308LD	W17	99.00	SNTP308LD	W17	SNTC308LD	W17	46
12	60	NTP312LD	W20	NTC312LD	W20	114.00	SNTP312LD	W20	SNTC312LD	W20	57
16	100	NTP316LD	W23	NTC316LD	W23	130.00	SNTP316LD	W23	SNTC316LD	W23	68
20	100	NTP320LD	W26	NTC320LD	W26	146.00	SNTP320LD	W26	SNTC320LD	W26	79
24	200	NTP324LD	W29	NTC324LD	W29	161.00	SNTP324LD	W29	SNTC324LD	W29	90
28	200	NTP328LD	W32	NTC328LD	W32	177.00	SNTP328LD	W32	SNTC328LD	W32	100
32	200	NTP332LD	W35	NTC332LD	W35	192.00	SNTP332LD	W35	SNTC332LD	W35	111
36	200	NTP336LD	W41	NTC336LD	W41	208.00	SNTP336LD	W41	SNTC336LD	W41	135
40	200	NTP340LD	W44	NTC340LD	W44	224.00	SNTP340LD	W44	SNTC340LD	W44	150

MAINS: SAFtoFUSE, SOLID NEUTRAL

4	30	NTP304FD	W23	NTC304FD	W23	$ 97.00	SNTP304FD	W23	SNTC304FD	W23	50
8	60	NTP308FD	W26	NTC308FD	W26	113.00	SNTP308FD	W26	SNTC308FD	W26	62
12	60	NTP312FD	W29	NTC312FD	W29	129.00	SNTP312FD	W29	SNTC312FD	W29	73
16	100	NTP316FD	W32	NTC316FD	W32	159.00	SNTP316FD	W32	SNTC316FD	W32	84
20	100	NTP320FD	W35	NTC320FD	W35	174.00	SNTP320FD	W35	SNTC320FD	W35	96
24	200	NTP324FD	W44	NTC324FD	W44	226.00	SNTP324FD	W44	SNTC324FD	W44	134
28	200	NTP328FD	W47	NTC328FD	W47	242.00	SNTP328FD	W47	SNTC328FD	W47	147
32	200	NTP332FD	W50	NTC332FD	W50	257.00	SNTP332FD	W50	SNTC332FD	W50	160
36	200	NTP336FD	W56	NTC336FD	W56	273.00	SNTP336FD	W56	SNTC336FD	W56	173
40	200	NTP340FD	W59	NTC340FD	W59	289.00	SNTP340FD	W59	SNTC340FD	W59	186

*SUPERBA Type Units WITHOUT individual fuse compartment doors.

BULLDOG LIGHTING PANELS AND CABINETS

TYPES
"NTP4" and "NTC4"

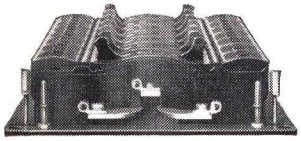
Single Fusing

SINGLE DOOR CONSTRUCTION

3 Phase 4 Wire, Solid Neutral

4 TO 40
CIRCUITS

ONE FUSE AND ONE SINGLE POLE TOGGLE SWITCH PER BRANCH CIRCUIT



Typical Main Lugs

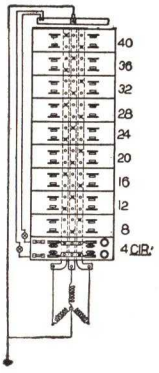
MAINS:
3 Phase, 4 Wire, 120/208 Volt, Solid Neutral.

BRANCHES:
2 Wire, Single Pole, 125 Volt, Solid Neutral, 30 Amp.

BOXES:
Code Gauge Galvanized Steel.
20″ Wide, 5½″ Deep, 4″ Gutters.
Height in Inches indicated by numerals in Box Catalog Numbers shown in tables below.

FRONTS:
Code Thickness Steel, Black Finish, Flush Spring Locks. **Flush Fronts will be furnished unless Surface Type specified on order.**

These Modified SUPERBA Panels are furnished WITHOUT individual fuse compartment doors.

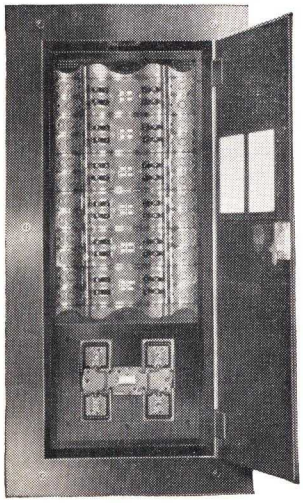


Wiring Diagram

Catalog Numbers and List Prices include complete Panel (less fuses) and Cabinet.

MAINS: LUGS ONLY, SOLID NEUTRAL

No. of Circuits	Amp. Mains	PLUG FUSE BRANCHES (Modified SUPERBA Type*) Catalog Nos.	Box Cat. Nos.	List Each	CART. FUSE BRANCHES (Modified SUPERBA Type*) Catalog Nos.	Box Cat. Nos.	Weight Each Lbs.
4	30	NTP404L	W14	$ 69.00	NTC404L	W14	35
8	60	NTP408L	W17	84.00	NTC408L	W17	46
12	60	NTP412L	W20	100.00	NTC412L	W20	57
16	60	NTP416L	W23	116.00	NTC416L	W23	68
20	100	NTP420L	W26	131.00	NTC420L	W26	79
24	100	NTP424L	W29	147.00	NTC424L	W29	90
28	100	NTP428L	W32	162.00	NTC428L	W32	100
32	200	NTP432L	W35	178.00	NTC432L	W35	111
36	200	NTP436L	W41	194.00	NTC436L	W41	135
40	200	NTP440L	W44	209.00	NTC440L	W44	150



Typical
Main SAFtoFUSE

MAINS: SAFtoFUSE, SOLID NEUTRAL

4	30	NTP404F	W23	$ 91.00	NTC404F	W23	50
8	60	NTP408F	W26	107.00	NTC408F	W26	62
12	60	NTP412F	W29	122.00	NTC412F	W29	73
16	60	NTP416F	W32	138.00	NTC416F	W32	84
20	100	NTP420F	W35	174.00	NTC420F	W35	96
24	100	NTP424F	W38	190.00	NTC424F	W38	107
28	100	NTP428F	W41	205.00	NTC428F	W41	127
32	200	NTP432F	W50	274.00	NTC432F	W50	151
36	200	NTP436F	W56	290.00	NTC436F	W56	173
40	200	NTP440F	W59	305.00	NTC440F	W59	196

*SUPERBA Type Units WITHOUT individual fuse compartment doors.

BULLDOG LIGHTING PANELS AND CABINETS

TYPES
"NTP4-D" "NTC4-D"
"SNTP4-D" "SNTC4-D"

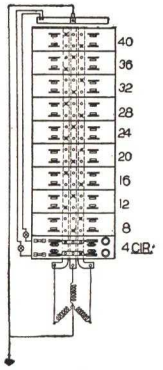
Single Fusing

EXTRA DOOR OVER FUSES

3 Phase 4 Wire, Solid Neutral

4 TO 40 CIRCUITS

ONE FUSE AND ONE SINGLE POLE TOGGLE SWITCH PER BRANCH CIRCUIT



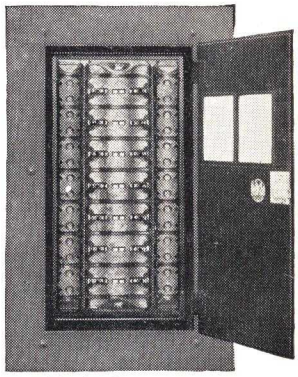
Wiring Diagram

MAINS:
3 Phase, 4 Wire, 120/208 Volt, Solid Neutral.

BRANCHES:
2 Wire, Single Pole, 125 Volt, Solid Neutral, 30 Amp.

BOXES:
Code Gauge Galvanized Steel.
20" Wide, 5½" Deep, 4" Gutters.
Height in Inches indicated by numerals in Box Catalog Numbers shown in tables below.

FRONTS:
Code Thickness Steel, Black Finish, Flush Spring Locks. **Flush Fronts will be furnished unless Surface Type specified on order.**


Typical Panel with Lugs Only Mains

Catalog Numbers and List Prices include complete Panel (less fuses) and Cabinet

MAINS: LUGS ONLY, SOLID NEUTRAL

No. of Circuits	Amp. Mains	TWO DOOR TYPE — PLUG FUSE BRANCHES (Modified SUPERBA Type*) Catalog Nos.	Box Cat. Nos.	TWO DOOR TYPE — CART. FUSE BRANCHES (Modified SUPERBA Type*) Catalog Nos.	Box Cat. Nos.	List Each	STANDARD SUPERBA TYPE (Individual Doors over Fuses) — PLUG FUSE BRANCHES Catalog Nos.	Box Cat. Nos.	CART. FUSE BRANCHES Catalog Nos.	Box Cat. Nos.	Wgt. Each Lbs.
4	30	NTP404LD	W14	NTC404LD	W14	$ 90.00	SNTP404LD	W14	SNTC404LD	W14	35
8	60	NTP408LD	W17	NTC408LD	W17	105.00	SNTP408LD	W17	SNTC408LD	W17	46
12	60	NTP412LD	W20	NTC412LD	W20	121.00	SNTP412LD	W20	SNTC412LD	W20	57
16	60	NTP416LD	W23	NTC416LD	W23	136.00	SNTP416LD	W23	SNTC416LD	W23	68
20	100	NTP420LD	W26	NTC420LD	W26	152.00	SNTP420LD	W26	SNTC420LD	W26	79
24	100	NTP424LD	W29	NTC424LD	W29	168.00	SNTP424LD	W29	SNTC424LD	W29	90
28	100	NTP428LD	W32	NTC428LD	W32	183.00	SNTP428LD	W32	SNTC428LD	W32	100
32	200	NTP432LD	W35	NTC432LD	W35	199.00	SNTP432LD	W35	SNTC432LD	W35	111
36	200	NTP436LD	W41	NTC436LD	W41	214.00	SNTP436LD	W41	SNTC436LD	W41	135
40	200	NTP440LD	W44	NTC440LD	W44	230.00	SNTP440LD	W44	SNTC440LD	W44	150

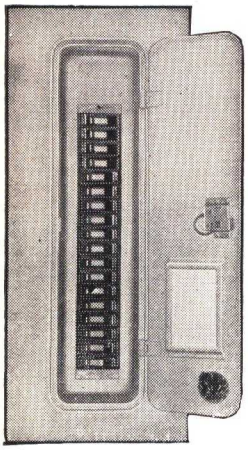
MAINS: SAFtoFUSE, SOLID NEUTRAL

4	30	NTP404FD	W23	NTC404FD	W23	$112.00	SNTP404FD	W23	SNTC404FD	W23	50
8	60	NTP408FD	W26	NTC408FD	W26	127.00	SNTP408FD	W26	SNTC408FD	W26	62
12	60	NTP412FD	W29	NTC412FD	W29	143.00	SNTP412FD	W29	SNTC412FD	W29	73
16	60	NTP416FD	W32	NTC416FD	W32	159.00	SNTP416FD	W32	SNTC416FD	W32	84
20	100	NTP420FD	W35	NTC420FD	W35	195.00	SNTP420FD	W35	SNTC420FD	W35	96
24	100	NTP424FD	W38	NTC424FD	W38	211.00	SNTP424FD	W38	SNTC424FD	W38	107
28	100	NTP428FD	W41	NTC428FD	W41	226.00	SNTP428FD	W41	SNTC428FD	W41	127
32	200	NTP432FD	W50	NTC432FD	W50	295.00	SNTP432FD	W50	SNTC432FD	W50	152
36	200	NTP436FD	W56	NTC436FD	W56	311.00	SNTP436FD	W56	SNTC436FD	W56	173
40	200	NTP440FD	W59	NTC440FD	W59	326.00	SNTP440FD	W59	SNTC440FD	W59	201

*SUPERBA Type Units WITHOUT individual fuse compartment doors

BULLDOG CIRCUIT MASTER PANELBOARDS

SINGLE ROW PANELS



MAINS: 3 Wire Solid Neutral 115-230V. AC only. — **NR1B-3L TYPE**

3 Ph. 4 Wire Solid Neutral 120-208V. AC only. — **NR1B-4L TYPE**

BRANCHES: 15 Amp. S.P. Breakers 2 Wire Solid Neutral 115V. 20-25-35 or 50 Amp. S. P. Breakers can be supplied at same price except where additions must be made when increased Mains are necessary.

BOXES: Code gauge galvanized steel, with knockouts in top and bottom Ends.

Height in inches indicated by numerals in Box Cat. Nos.

Widths—

(CM Boxes) 10½" W. x 4¼" D. (I.D.) 3" Wiring Gutters.
(X Boxes) 15½" W. x 4½" D. (I.D.) 4" Wiring Gutters.

FRONTS: Code Gauge Steel, Black Finish.

FLUSH FRONTS furnished unless Surface Type ordered.

Catalog Numbers and List Prices include complete Panel and Cabinet

1 PHASE 3 WIRE SOLID NEUTRAL						3 PHASE 4 WIRE SOLID NEUTRAL				
MAINS: SOLDERLESS WIRE GRIPS										
No. of Circ.	Amp. Mains	Catalog Numbers	List Each	Wgt. lbs. Approx.	Box Cat. No.	Amp. Mains	Catalog Numbers	List Each	Approx. Wgt. lbs.	Box Cat. No.
4	50	**NR1B04-3L**	**$ 65.00**	16	CM15	-----	-----	-----	---	-----
6	50	**NR1B06-3L**	**74.00**	18	CM15	50	**NR1B06-4L**	**$ 81.00**	18	CM15
8	50	**NR1B08-3L**	**83.00**	20	CM15	50	**NR1B08-4L**	**90.00**	20	CM15
10	50	**NR1B10-3L**	**92.00**	26	CM20	50	**NR1B10-4L**	**99.00**	26	CM20
12	100	**NR1B12-3L**	**101.00**	27	CM20	50	**NR1B12-4L**	**108.00**	27	CM20
14	100	**NR1B14-3L**	**110.00**	35	CM24	50	**NR1B14-4L**	**117.00**	35	CM24
16	100	**NR1B16-3L**	**120.00**	35	CM24	100	**NR1B16-4L**	**126.00**	35	CM24
18	100	**NR1B18-3L**	**129.00**	39	CM28	100	**NR1B18-4L**	**135.00**	39	CM28
20	100	**NR1B20-3L**	**138.00**	40	CM34	100	**NR1B20-4L**	**143.00**	40	CM34
22	200	**NR1B22-3L**	**147.00**	50	X38	100	**NR1B22-4L**	**153.00**	41	CM34
24	200	**NR1B24-3L**	**156.00**	52	X38	100	**NR1B24-4L**	**162.00**	42	CM34
26	200	**NR1B26-3L**	**165.00**	70	X44	100	**NR1B26-4L**	**172.00**	48	CM40
28	200	**NR1B28-3L**	**174.00**	72	X44	100	**NR1B28-4L**	**181.00**	48	CM40
30	200	**NR1B30-3L**	**183.00**	74	X44	100	**NR1B30-4L**	**190.00**	50	CM44
32	200	**NR1B32-3L**	**192.00**	76	X44	200	**NR1B32-4L**	**199.00**	76	X44

TWO ROW PANELS*

1 PHASE 3 WIRE SOLID NEUTRAL						3 PHASE 4 WIRE SOLID NEUTRAL				
MAINS: SOLDERLESS WIRE GRIPS										
No. of Circ.	Amp. Mains	Catalog Numbers	List Each	Wgt. lbs. Approx.	Box Cat. No.	Amp. Mains	Catalog Numbers	List Each	Approx. Wgt. lbs.	Box Cat. No.
4	50	**NRB04-3L**	**$ 70.00**	32	W14	-----	-----	-----	---	-----
6	50	**NRB06-3L**	**82.00**	39	W17	50	**NRB06-4L**	**$ 88.00**	39	W17
8	50	**NRB08-3L**	**94.00**	40	W17	50	**NRB08-4L**	**100.00**	40	W17
10	50	**NRB10-3L**	**105.00**	41	W17	50	**NRB10-4L**	**112.00**	41	W17
12	100	**NRB12-3L**	**117.00**	48	W20	50	**NRB12-4L**	**123.00**	48	W20
14	100	**NRB14-3L**	**129.00**	49	W20	50	**NRB14-4L**	**135.00**	49	W20
16	100	**NRB16-3L**	**140.00**	50	W20	100	**NRB16-4L**	**147.00**	50	W20
18	100	**NRB18-3L**	**152.00**	56	W23	100	**NRB18-4L**	**159.00**	56	W23
20	100	**NRB20-3L**	**164.00**	57	W23	100	**NRB20-4L**	**170.00**	57	W23
22	200	**NRB22-3L**	**175.00**	58	W23	100	**NRB22-4L**	**182.00**	58	W23
24	200	**NRB24-3L**	**187.00**	66	W26	100	**NRB24-4L**	**194.00**	66	W26
26	200	**NRB26-3L**	**199.00**	67	W26	100	**NRB26-4L**	**205.00**	67	W26
28	200	**NRB28-3L**	**211.00**	68	W26	100	**NRB28-4L**	**217.00**	68	W26
30	200	**NRB30-3L**	**222.00**	75	W29	100	**NRB30-4L**	**229.00**	75	W29
32	200	**NRB32-3L**	**234.00**	76	W29	200	**NRB32-4L**	**240.00**	76	W29
34	200	**NRB34-3L**	**246.00**	82	W32	200	**NRB34-4L**	**252.00**	82	W32
36	200	**NRB36-3L**	**257.00**	83	W32	200	**NRB36-4L**	**264.00**	83	W32
38	200	**NRB38-3L**	**269.00**	90	W35	200	**NRB38-4L**	**276.00**	90	W35
40	200	**NRB40-3L**	**281.00**	91	W35	200	**NRB40-4L**	**287.00**	91	W35
42	200	**NRB42-3L**	**292.00**	92	W35	200	**NRB42-4L**	**299.00**	92	W35

*Boxes are 20 inches wide x 5½ inches deep — height in inches indicated by numerals in Box Cat. Nos.

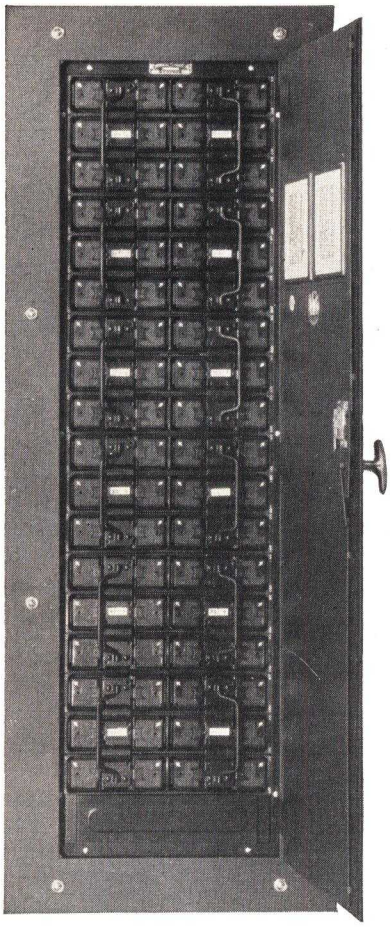
BULLDOG SAFtoFUSE

Convertible Distribution Panelboards and Cabinets

REMOVABLE HEAD TYPE FUSIBLE SWITCH BRANCH CIRCUITS

30 Amp. to 600 Amp.

600 Volts and Less

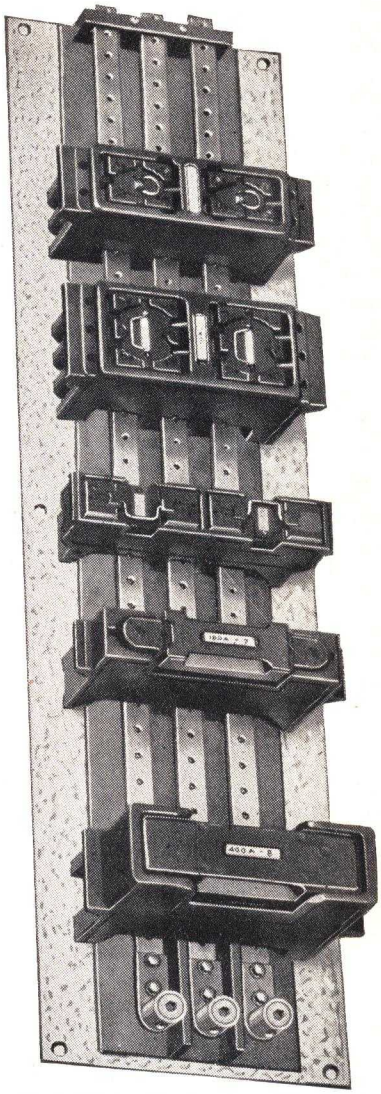


Above: a 12 circuit SAFtoFUSE panel, incorporating six three-pole double branch units. Blank filler plate at bottom covers main lugs.

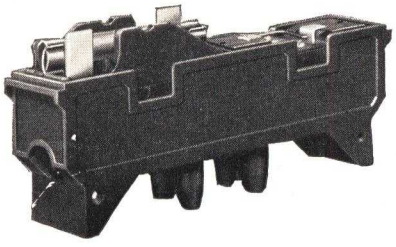
Due to their unit construction, SAFtoFUSE panels are extremely flexible. In an initial installation, a box larger than necessary for immediate requirements may be installed, equipped with ample mains and bus bars to provide for addition of future circuits. Then, as the need arises, additional circuit units may be installed, quickly and easily. Until needed, unused space is covered with blank filler units for safety and appearance.

SAFtoFUSE units are artistic and of uniform appearance. Each unit comprises a body which contains current-carrying parts directly connected to busbars, and the Head in which the switch blades and the fuse holders are mounted. Exceptionally heavy current-carrying copper parts are provided. Fuses are accessible only when the head has been completely removed from the unit base. All live parts are fully shielded against accidental contact.

Standardization of units permits substitution of circuits of different capacities; and when they are no longer needed in one panel they may be transferred to another.

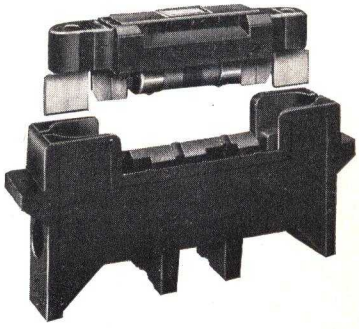


Above: A panel interior showing the bus bars with holes drilled and tapped on 1¼" centers to facilitate the mounting of circuit units of any size or type.



Above: A double branch or two circuit SAFtoFUSE unit. One branch head has been inverted and placed in the body as a positive indication that the circuit is open. Convertible 30-60-100 Amp.

Right: Single branch or single circuit SAFtoFUSE unit. The head has been disengaged from the body, showing switch blades and fuse. Convertible 30-60-100-200 Amp.



For More Detailed Information, Write for Condensed Catalog 411

BULLDOG STANDARD SAFtoFUSE DISTRIBUTION PANELS

250 VOLTS AND 600 VOLTS OR LESS (Convertible Type)

30 Amp. or 60 Amp. Branch Circuits

All items on this page are listed as "Panelboards" by Underwriters' Laboratories under File E2269.

30 Amp. Furnished Unless 60 Amp. Specified‡

Main and Branch Circuit Terminals are BullDog Solderless Wire Grips.

Catalog Numbers and List Prices include complete Panel and Cabinet. No Fuses Included.

3-3 WIRE 250 VOLT 3 PHASE

Mains: 250 Volt or Less Lugs Only.

Branches: 30 or 60 Amp. 3 Pole Circuits. Inverted Head Type Units.

Boxes: Code Gauge Galvanized Sheet Steel, 20″ wide, 5½″ deep (I.D.), 4″ Gutters, Standard K.O.

Fronts: Code Gauge Sheet Steel, Black Finish, Flush or Surface Type.†

Mains—Lugs Only 200 A. Bus.

No. Cir.	CATALOG NO. 3-3 Wire 3 Phase	List Price	Approx. Wt.	Ht. In.	BOX DATA Cat. No.
4	**US3304L2**	**$127.00**	93	23	**W23**
6	**US3306L2**	**171.00**	115	26	**W26**
8	**US3308L2**	**215.00**	147	32	**W32**
10	**US3310L2**	**259.00**	176	38	**W38**
12	**US3312L2**	**303.00**	210	41	**W41**
14	**US3314L2**	**347.00**	243	47	**W47**
16	**US3316L2**	**391.00**	275	53	**W53**
18	**US3318L2**	**435.00**	302	56	**W56**
20	**US3320L2**	**479.00**	359	62	**W62**
22	**US3322L2**	**523.00**	394	68	**W68**
24	**US3324L2**	**567.00**	422	71	**W71**

Mains—Lugs Only 400 A. Bus.

6	**US3306L4**	**184.00**	134	32	**W32**
8	**US3308L4**	**228.00**	161	35	**W35**
10	**US3310L4**	**272.00**	201	41	**W41**
12	**US3312L4**	**316.00**	236	47	**W47**
14	**US3314L4**	**360.00**	263	50	**W50**
16	**US3316L4**	**404.00**	299	56	**W56**
18	**US3318L4**	**448.00**	358	62	**W62**
20	**US3320L4**	**492.00**	388	65	**W65**
22	**US3322L4**	**536.00**	425	71	**W71**
24	**US3324L4**	**580.00**	463	77	**W77**

3-3 WIRE 600 VOLT 3 PHASE

Mains: 600 Volt or Less Lugs Only.

Branches: 30 or 60 Amp. 3 Pole Circuits.# Reversible Head Type Units.

Boxes: Code Gauge Galvanized Sheet Steel, 20″ wide, 5½″ deep (I.D.), 4″ Gutters, Standard K.O.

Fronts: Code Gauge Sheet Steel, Black Finish, Flush or Surface Type.†

Mains—Lugs Only 200 A. Bus.

No. Cir.	CATALOG NO. 3-3 Wire 3 Phase	List Price	Approx. Wt.	Ht. In.	BOX DATA Cat. No.
4	**US6304L2**	**$186.00**	106	26	**W26**
6	**US6306L2**	**253.00**	142	35	**W35**
8	**US6308L2**	**320.00**	184	41	**W41**
10	**US6310L2**	**387.00**	225	50	**W50**
12	**US6312L2**	**454.00**	261	56	**W56**
14	**US6314L2**	**521.00**	330	65	**W65**
16	**US6316L2**	**588.00**	368	71	**W71**
18	**US6318L2**	**655.00**	418	80	**W80**

Mains—Lugs Only 400 A. Bus.

4	**US6304L4**	**199.00**	121	32	**W32**
6	**US6306L4**	**266.00**	154	38	**W38**
8	**US6308L4**	**333.00**	217	47	**W47**
10	**US6310L4**	**400.00**	245	53	**W53**
12	**US6312L4**	**467.00**	313	62	**W62**
14	**US6314L4**	**534.00**	354	68	**W68**
16	**US6316L4**	**601.00**	404	77	**W77**

*Standard lugs furnished unless otherwise specified.

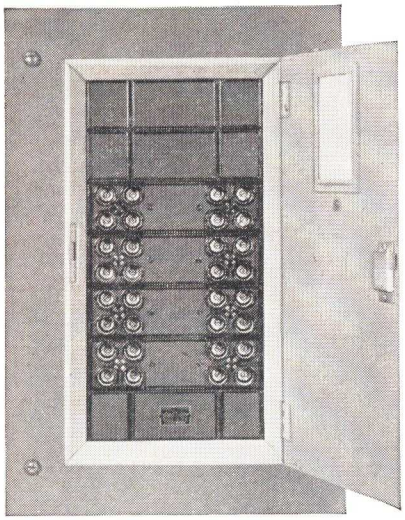
†Surface Fronts furnished unless flush type is specified on order.

‡Converting the circuits to either 30 or 60 Amp. involves exchange of heads only.

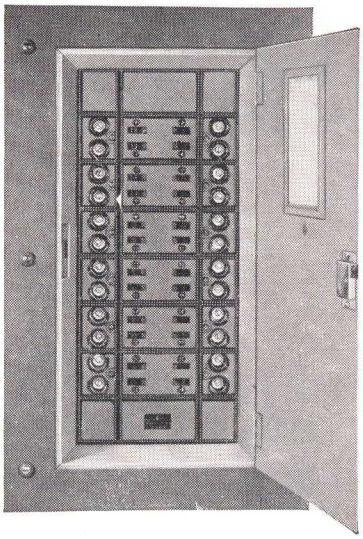
#One only, 100 Amp. 600 Volt Circuit may be inserted in place of any 30 or 60 Amp. Double Branch Unit (2-3 pole cir.) at no additional charge.

SQUARE D LIGHTING PANELBOARDS

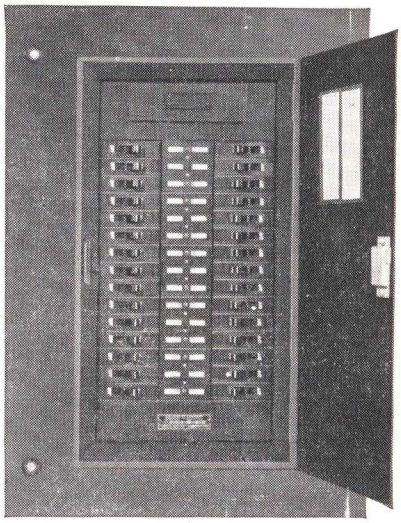
These illustrations are intended to convey only the general appearance of lighting panelboards. Due to limited space, all types of panel equipment are not shown.



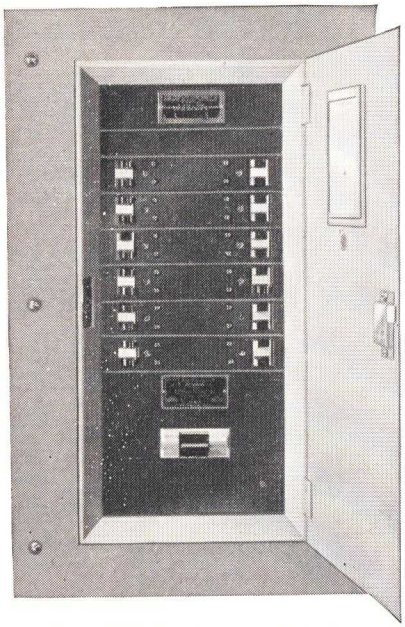
Type NP Fusible Lighting Panelboard.



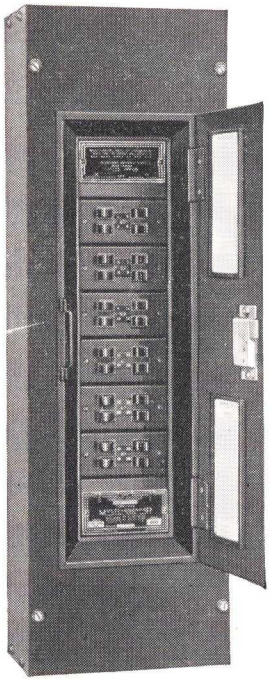
Type NTP Fusible Lighting Panelboard.



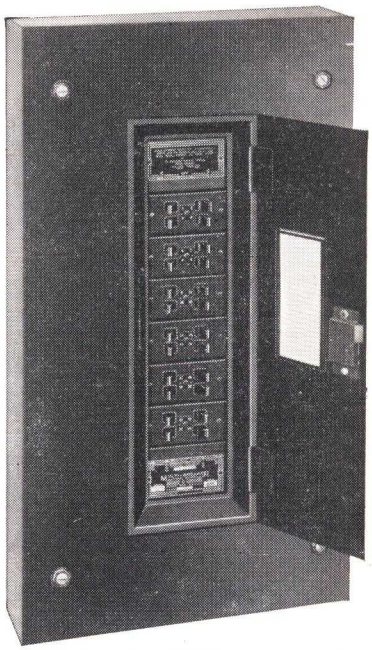
Types NQB, NAB and NYB Circuit Breaker Lighting Panelboards.



Type NMM Multi-breaker Lighting Panelboard.



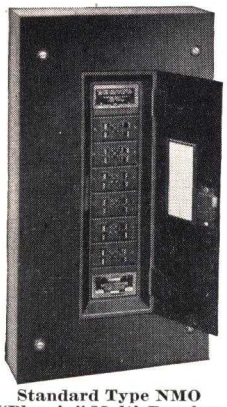
Column Type NMO Plug-in Multi-breaker Lighting Panelboard.



Standard Type NMO Plug-in Multi-breaker Lighting Panelboard.

SQUARE D CIRCUIT BREAKER LIGHTING PANELBOARDS

WITH PLUG-IN TYPE M04 THERMAL-MAGNETIC MULTI-BREAKER BRANCHES



Standard Type NMO "Plug-in" Multi-Breaker Lighting Panelboard

Ratings. 15 ampere single pole branches will be furnished unless otherwise specified. **20 and 30 ampere single pole** breakers can be substituted **without price change. 15, 20 and 30 ampere double pole** individual trip breakers are available with out price change but each occupies same space as two (2) single pole 15 ampere breakers. **40 and 50 ampere double pole** individual trip breakers are available and each occupies same space as four (4) single pole 15 ampere breakers. Subtract **$7.00** list for each 40 or 50 ampere double pole breaker substituted for four (4) single pole breakers. Number of double pole branches are limited in the 4-wire panels; — see explanation below under "4-wire panels." Use of branch breakers rated more than 15 amperes may necessitate increased mains. Price additions upon request.

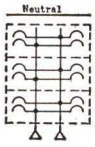
Two-Pole Branches:

3-wire panels may contain all 2-pole circuits or combinations of 1 and 2-pole circuits in multiples of four (4) singe poles rated 15, 20 or 30 amperes. 40 or 50 ampere, 2-pole breakers each occupy the same space as four (4) 1-pole, 15 ampere breakers.

4-wire panels may contain combinations of 1 and 2-pole circuits in multiples of four (4) single poles rated 15, 20 or 30 amperes; but 2-pole circuits are limited to 2 in the 8 branch pole panel, 4 in the 12 and 16 branch pole panels, 6 in the 20 branch pole panel, 8 in the 24 branch pole panel, 10 in the 28 and 32 branch pole panel and 12 in the 36 branch pole panel. However, 40 and 50 ampere 2-pole breakers each occupy the same as two (2) 15, 20 or 30 ampere 2 pole breakers. The number of available 2-pole circuits is correspondingly reduced if 40 or 50 ampere ratings are desired.

Space Only. When spaces only for future branches are required, select price of panel having branches equal in number to the total of circuits and spaces required (in multiples of four (4) single poles), then **deduct $12.00** list for each group of four (4) single pole spaces included.

TYPE NMO-3 — 1φ, 3W. S/N A.C. Only — Standard and Column Widths



MAINS: 120/240 V. A. C. Only.
BRANCHES: Single Pole, 15 Amp., 120 V., 2-Wire S/N Breakers
BOXES: Column Types and 200 Amp. Main Breaker Panels 5″ Deep; All Others 4½″ Deep.

BOX TYPE

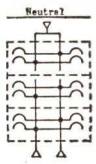
STANDARD 15″ WIDE

Branch Poles	Amp. Cap. of Mains	Catalog Number	List Price Complete	Box Only (14 Gauge) Catalog Number	Interior Only Catalog Number	Front Only (12 Gauge) Catalog Number
MAINS: LUGS ONLY						
8	50	**NMO-08-3L**	**$100.**	MO-020	MO-6049	MO-2020
12	100	**NMO-12-3L**	**122.**	MO-024	MO-6050	MO-2024
16	100	**NMO-16-3L**	**144.**	MO-024	MO-6051	MO-2024
20	100	**NMO-20-3L**	**166.**	MO-028	MO-6052	MO-2028
24	200	**NMO-24-3L**	**188.**	MO-028	MO-6053	MO-2028
28	200	**NMO-28-3L**	**210.**	MO-034	MO-6054	MO-2034
32	200	**NMO-32-3L**	**232.**	MO-034	MO-6055	MO-2034
36	200	**NMO-36-3L**	**254.**	MO-038	MO-6056	MO-2038
40	200	**NMO-40-3L**	**276.**	MO-038	MO-6057	MO-2038
MAINS: CIRCUIT BREAKER — 2-POLE						
8	50	**NMO-08-3AB**	**$118.**	MO-024	MO-6059	MO-2024
12	100	**NMO-12-3AB**	**156.**	MO-028	MO-6060	MO-2028
16	100	**NMO-16-3AB**	**178.**	MO-034	MO-6061	MO-2034
20	100	**NMO-20-3AB**	**200.**	MO-034	MO-6062	MO-2034
24	200	**NMO-24-3AB**	**360.**	MO-38	MO-6063	MO-2038
28	200	**NMO-28-3AB**	**382.**	MO-44	MO-6064	MO-2044
32	200	**NMO-32-3AB**	**404.**	MO-44	MO-6065	MO-2044
36	200	**NMO-36-3AB**	**426.**	MO-48	MO-6066	MO-2048
40	200	**NMO-40-3AB**	**448.**	MO-48	MO-6067	MO-2048

COLUMN 8⅝″ WIDE

Branch Poles	Amp. Cap. of Mains	Catalog Number	List Price Complete	Box Only (14 Gauge) Catalog Number	Interior Only Catalog Number	Front Only (12 Gauge) Catalog Number
MAINS: LUGS ONLY						
8	50	**NMO-08-3LX**	**$100.**	MO-820	MO-6049	MO-2820
12	100	**NMO-12-3LX**	**122.**	MO-824	MO-6050	MO-2824
16	100	**NMO-16-3LX**	**144.**	MO-824	MO-6051	MO-2824
20	100	**NMO-20-3LX**	**166.**	MO-828	MO-6052	MO-2828
24	200	**NMO-24-3LX**	**188.**	MO-828	MO-6053	MO-2828
28	200	**NMO-28-3LX**	**210.**	MO-834	MO-6054	MO-2834
32	200	**NMO-32-3LX**	**232.**	MO-834	MO-6055	MO-2834
36	200	**NMO-36-3LX**	**254.**	MO-838	MO-6056	MO-2838
40	200	**NMO-40-3LX**	**276.**	MO-838	MO-6057	MO-2838
MAINS: CIRCUIT BREAKER — 2-POLE						
8	50	**NMO-08-3ABX**	**$118.**	MO-824	MO-6059	MO-2824
12	100	**NMO-12-3ABX**	**156.**	MO-828	MO-6060	MO-2828
16	100	**NMO-16-3ABX**	**178.**	MO-834	MO-6061	MO-2834
20	100	**NMO-20-3ABX**	**200.**	MO-834	MO-6062	MO-2834

TYPE NMO-4 — 3φ, 4W. S/N A.C. Only — Standard and Column Widths



MAINS: 120/208 V., A. C. Only.
BRANCHES: Single Pole, 15 Amp., 120 V., 2-Wire S/N Breakers.
BOXES: Column Types and 200 Amp. Main Breaker Panels 5″ Deep; All Others 4½″ Deep.

BOX TYPE

STANDARD 15″ WIDE

Branch Poles	Amp. Cap. of Mains	Catalog Number	List Price Complete	Box Only (14 Gauge) Catalog Number	Interior Only Catalog Number	Front Only (12 Gauge) Catalog Number
MAINS: LUGS ONLY						
8	50	**NMO-08-4L**	**$107.**	MO-020	MO-8049	MO-2020
12	50	**NMO-12-4L**	**130.**	MO-024	MO-8050	MO-2024
16	100	**NMO-16-4L**	**152.**	MO-028	MO-8051	MO-2028
20	100	**NMO-20-4L**	**174.**	MO-028	MO-8052	MO-2028
24	100	**NMO-24-4L**	**196.**	MO-034	MO-8053	MO-2034
28	100	**NMO-28-4L**	**218.**	MO-034	MO-8054	MO-2034
32	200	**NMO-32-4L**	**240.**	MO-038	MO-8055	MO-2038
36	200	**NMO-36-4L**	**262.**	MO-038	MO-8056	MO-2038
MAINS: CIRCUIT BREAKER — 3-POLE						
8	50	**NMO-08-4AB**	**$134.**	MO-028	MO-8059	MO-2028
12	50	**NMO-12-4AB**	**156.**	MO-028	MO-8060	MO-2028
16	100	**NMO-16-4AB**	**204.**	MO-034	MO-8061	MO-2034
20	100	**NMO-20-4AB**	**226.**	MO-034	MO-8062	MO-2034
24	100	**NMO-24-4AB**	**248.**	MO-038	MO-8063	MO-2038
28	100	**NMO-28-4AB**	**270.**	MO-038	MO-8064	MO-2038
32	200	**NMO-32-4AB**	**451.**	MO-48	MO-8065	MO-2048
36	200	**NMO-36-4AB**	**473.**	MO-48	MO-8066	MO-2048

COLUMN 8⅝″ WIDE

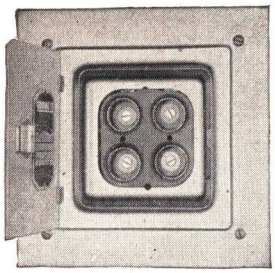
Branch Poles	Amp. Cap. of Mains	Catalog Number	List Price Complete	Box Only (14 Gauge) Catalog Number	Interior Only Catalog Number	Front Only (12 Gauge) Catalog Number
MAINS: LUGS ONLY						
8	50	**NMO-08-4LX**	**$107.**	MO-820	MO-8049	MO-2820
12	50	**NMO-12-4LX**	**130.**	MO-824	MO-8050	MO-2824
16	100	**NMO-16-4LX**	**152.**	MO-828	MO-8051	MO-2828
20	100	**NMO-20-4LX**	**174.**	MO-828	MO-8052	MO-2828
24	100	**NMO-24-4LX**	**196.**	MO-834	MO-8053	MO-2834
28	100	**NMO-28-4LX**	**218.**	MO-834	MO-8054	MO-2834
32	200	**NMO-32-4LX**	**240.**	MO-838	MO-8055	MO-2838
36	200	**NMO-36-4LX**	**262.**	MO-838	MO-8056	MO-2838
MAINS: CIRCUIT BREAKER — 3-POLE						
8	50	**NMO-08-4ABX**	**$134.**	MO-828	MO-8059	MO-2828
12	50	**NMO-12-4ABX**	**156.**	MO-828	MO-8060	MO-2828
16	100	**NMO-16-4ABX**	**204.**	MO-834	MO-8061	MO-2834
20	100	**NMO-20-4ABX**	**226.**	MO-834	MO-8062	MO-2834
24	100	**NMO-24-4ABX**	**248.**	MO-838	MO-8063	MO-2838
28	100	**NMO-28-4ABX**	**270.**	MO-838	MO-8064	MO-2838

Box Height is indicated by last two figures of box number.
Standard Finish. Fronts — academy brown; boxes — galvanized steel.

Wiring Gutters. End gutters are 5″ minimum in all panels. Side gutters are 5½″ wide in standard type 15″ wide panels and 2″ wide in column type 8⅝″ wide panels.

SQUARE D FUSE CABINETS

BRANCHES: One Pole Fusible Only



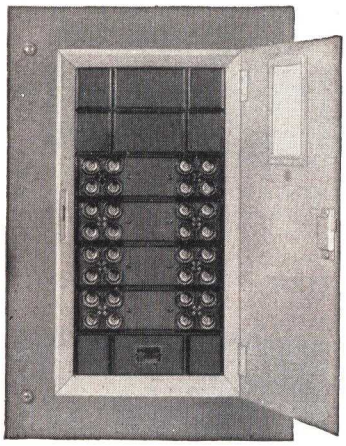
No. 37421

Fuse cabinets are rated at 30 amperes, for 125/250 Volt 2- or 3-wire A.C. or D.C. Fuse shells will accommodate either standard or non-tamperable plug fuses. Neutrals are insulated from box, and standard finish is Gray Enamel.

No. Branches	CATALOG NO.		List Price	BOX DIMENSIONS		
	Surface	Flush		*Height	*Width	Depth
2	39211	37221	$ 4.00	6⅝	6⅝	2¾
4	39411	37421	5.00	6⅝	6⅝	2¾
6	39611	37621	8.00	11⅛	7⅜	3⅛
8	39811	37821	10.00	14⅛	7⅜	3⅛
10	39011	37021	15.00	15¼	7⅜	3⅛
12	39111	37121	20.00	16⅞	7⅜	3⅛

*For outside dimensions of FLUSH front, add approximately 1¼" to height and width of box.

STANDARD FUSE LIGHTING PANELBOARDS

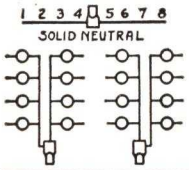


TYPE N1P-L PANEL

1. Group phase bus connections only.
2. For increased main capacity, information on request.
3. Subfeeds applying to N1P panels, information on request.

For panel with 1 and 2 fuse branches or with all branches 2 fuse, convert to total number of 1 fuse branches and obtain price of corresponding type N1P-3 panel.

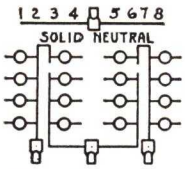
FINISH: Fronts—bakelite brown; boxes galvanized steel.



N1P-3

MAINS: 125/250 Volt, 3-Wire S/N
BRANCHES: 30 Amp. 1 P. Plug Fuse Connections
Single Door (Boxes 20" W., 5¾" D.)

No. Branches	*Amp. Mains	Cat. No.	List Price	†Box Cat. No.	Interior Cat. No.	Front Cat. No.
		MAINS: LUGS ONLY				
8	60	N1P08-3L	$ 48	MH17	LP600	MH2017
16	100	N1P16-3L	60	MH23	LP602	MH2023
24	200	N1P24-3L	72	MH26	LP604-A	MH2026
32	200	N1P32-3L	84	MH29	LP606-A	MH2029
40	200	N1P40-3L	96	MH32	LP608	MH2032
		MAINS: FUSIBLE SWITCH				
8	60	N1P08-3F	$ 59	MH23	LP615	MH2023
16	100	N1P16-3F	82	MH32	LP617	MH2032
24	200	N1P24-3F	122	MH44	LP634-A	MH2444
32	200	N1P32-3F	134	MH47	LP636-A	MH2447
40	200	N1P40-3F	146	MH50	LP638-F	MH2450



N1P-4

MAINS: 120/208 Volt, 4-Wire S/N
BRANCHES: 30 Amp. 1 P. Plug Fuse Connections
Single Door (Boxes 20" W., 5¾" D.)

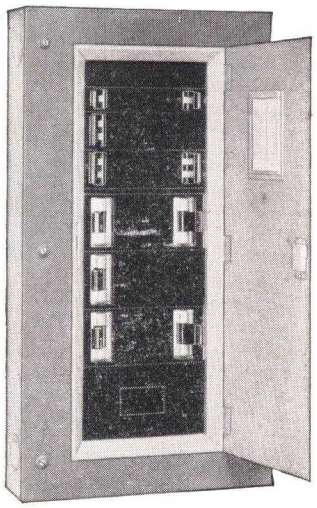
*Amp. Mains	Cat. No.	List Price	†Box Cat. No.	Interior Cat. No.	Front Cat. No.
	MAINS: LUGS ONLY				
60	N1P08-4L	$ 53	MH20	LP650	MH2020
60	N1P16-4L	65	MH23	LP652-A	MH2023
100	N1P24-4L	77	MH26	LP654	MH2026
200	N1P32-4L	89	MH29	LP656-A	MH2029
200	N1P40-4L	101	MH32	LP658	MH2032
	MAINS: FUSIBLE SWITCH				
60	N1P08-4F	$ 70	MH23	LP665	MH2023
60	N1P16-4F	82	MH29	LP667-A	MH2029
100	N1P24-4F	110	MH35	LP669	MH2035
200	N1P32-4F	163	MH47	LP686-A	MH2447
200	N1P40-4F	175	MH50	LP688-F	MH2450

†Last two figures of Box No. indicate box height.

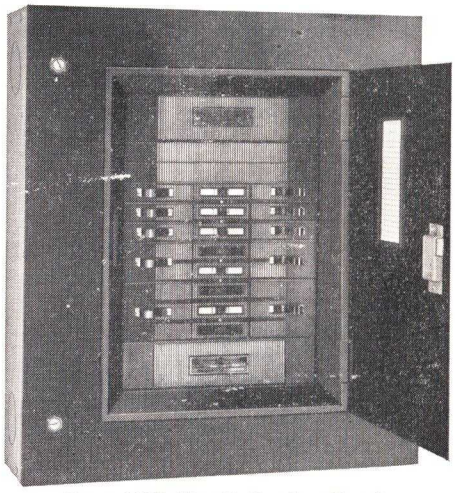
*For increased mains, information on request.

SQUARE D DISTRIBUTION PANELBOARDS

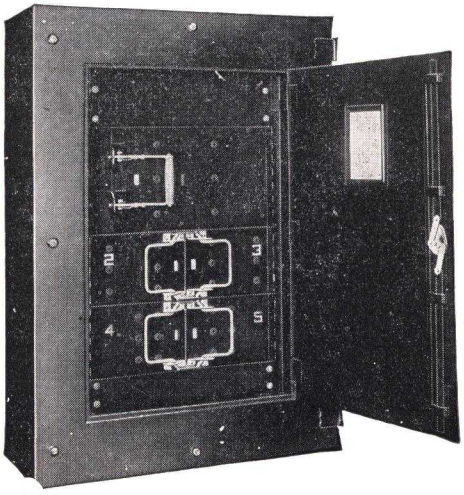
These illustrations are intended to convey only the general appearance of panelboards. Due to limited space, all types of panel equipment are not shown.



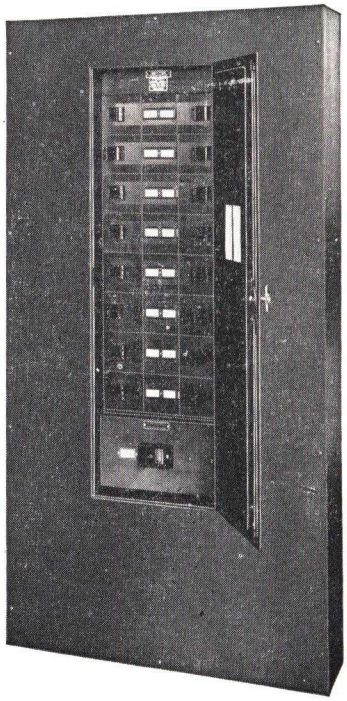
Type MH Multi-breaker Distribution Panelboard.



Type ABH Circuit Breaker Panelboard using Type ML Breakers.



Saflex Fusible Convertible Light and Power Panelboard.



Type ML Circuit Breaker Convertible Power and Light Distribution Panelboard.

BULLDOG LIGHTING PANELS

BOXES AND FRONTS

Boxes — For Lighting Panels are of three-piece construction made from code gauge galvanized steel. Ends are removable, reversible and interchangeable and equipped with conduit knockouts. "X" Boxes are 15½ inches wide; "W" Boxes 20 inches wide I.D. allowing 4-inch gutters. Heights vary according to type and number of circuits required.

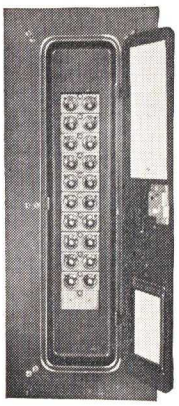
Panel Support and Housing Frame—All standard Panels are provided with adjustable Panelboard Supports which permit an outward adjustment of Panel when front edges of Boxes do not come flush with finished plaster. Housing Frame permits final adjustment after Panel is wired.

Fronts—Standard Steel Cabinet Fronts are made from a single sheet of cold rolled code gauge steel. The door is blanked out, leaving a trim (mat) of proper width all around the door. An ornamental molding completely surrounds and is welded onto the door and mitered at the corners, reinforcing the door and providing a rabbet around the door opening.

Hardware—The Fronts of Circuit Breaker Panelboards are furnished with Bulldog Flush Spring Lock and 2 keys.

Trim Clamps—Instantly self-adjusting—no indicator to manipulate. The bottom clamps also act as a rest to support the front position while tightening the remaining clamps.

FUSENTERS—"TYPE NRP"—SINGLE FUSING



Mains:
3-Wire, 125-250 volts. Lugs only (solderless wire grip).

Branches:
2-Wire, 30 amp. 125 volts. Plug fuse only.

Boxes:
Code Gauge, galvanized steel; 10½ inches wide, 4¼ inches deep.
3-inch wiring gutters.

Fronts:
Black finish. Flush spring locks.
Flush fronts will be furnished unless surface type is specified.

No. of Circuits	Amp. Mains	Cat. No.	Height Box	Wt. Lbs. Each	Price Each
8	60	**NRP308L**	15	20	**$22.00**
10	60	**NRP310L**	20	25	**25.00**
12	60	**NRP312L**	20	26	**28.00**
14	100	**NRP314L**	24	34	**31.00**
16	100	**NRP316L**	24	35	**33.00**
18	100	**NRP318L**	28	40	**36.00**
20	100	**NRP320L**	28	41	**38.00**

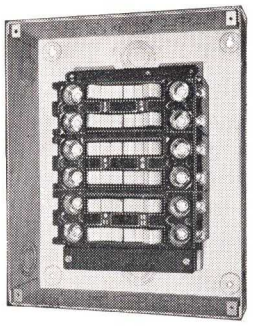
Box Knockouts — Conduit Sizes

Cat. No.	Both Ends of Box	Both Sides of Box	Back of Box (Top & Bottom)
NRP308L	10—½-¾	4—½-¾	1—½-¾-1-1¼
	1—½-¾-1-1¼	1—½-¾-1-1¼	
NRP310L	10—½-¾	6—½-¾	1—½-¾-1-1¼
NRP312L	1—½-¾-1-1¼	1—½-¾-1-1¼	
NRP314L	10—½-¾	8—½-¾	1—½-¾-1-1¼
NRP316L	1—½-¾-1-1¼	1—½-¾-1-1¼	
NRP318L	10—½-¾	8—½-¾	
NRP320L	1—¾-1-1¼-1½		

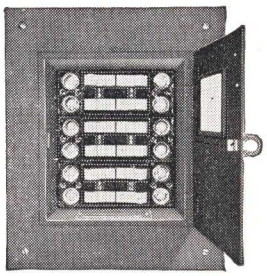
BULLDOG LIGHTING PANELS

ROCKER TYPE

SWITCH-CENTERS—TYPES "RPS3" AND "RPS4"



"RPS" Type Switch-Center Units are mounted directly to back of boxes.



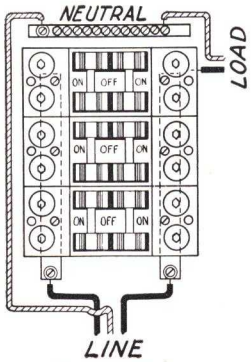
12 Circuit No. RPS312L

Porcelain Units

Main lugs are solderless wire grips. Plug fuse branches have improved quick wire connectors. Rocker type switches feature floating contacts and provision for written circuit identification on each switch handle.

An integral compact product, Switch-Centers have obvious advantages over synthetic fuse cabinets of the gang switch plate type.

Switch ahead of every fuse gives a higher safety factor than Fuse only Panels at very little additional cost. Numerous knockouts for suitable conduit sizes have been provided.



Wiring Diagram 3/2 Wire—Single Phase

The shallow boxes, 12 inches wide by 3⅞ inches deep (ID), available for this line, permit Flush type Switch-Centers to be mounted in thin walls. 1½-inch wiring gutters. Black finish fronts.

One door construction, ring spring catch only.

Mains:
Lugs only, 60-amp. Solderless Type.

Branches:
30-amp. S. P. Rocker Type Switches and Plug Fuse connections.

3/2 Wire, 125-250 Volts—Solid Neutral

No. of Circuits	Cat. No. Flush	Cat. No. Surface	Wt. Lb. Each	Box Hght.	Price Each
4	**RPS304L**	**RPS304LS**	15	7″	**$26.00**
8	**RPS308L**	**RPS308LS**	24	12″	**31.00**
12	**RPS312L**	**RPS312LS**	30	15″	**41.00**

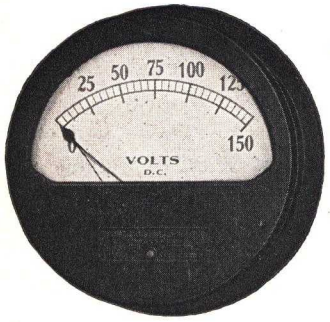
3-Phase, 4-Wire, 120-208 Volts—Solid Neutral

8	**RPS408L**	**RPS408LS**	24	12″	**36.00**
12	**RPS412L**	**RPS412LS**	30	15″	**47.00**

Panel, box and front complete, in individual carton—a convenient shelf item.

WESTON SWITCHBOARD INSTRUMENTS

MODEL 252 D.C. INSTRUMENTS

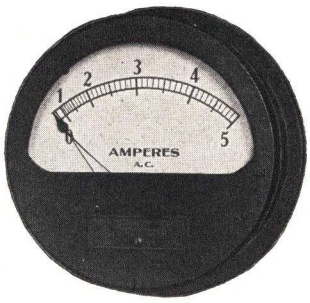


Accurate within 1 percent. Permanent magnet moving coil type; magnetically shielded. Harmonizes with Models 260, 343, 355, 356, 368 and 554. Furnished in pressed steel case, dull black finish. Surface type, back connected. Model 252, with suitable exploring coils, can be used as an electric resistance thermometer. Information on request.

Ammeters provided with external shunts. Voltmeters self-contained up to 300 volts; sensitivity approximately 100 ohms per volt. Voltmeters may be provided with a second but lower range at **$7.50** extra. Diameter at base, 7 31/32 inches; projection from panel, 4 inches; length of scale, 5.1 inches. Approximate weight, 9 pounds.

Range	Scale Div.	Ammeters	Voltmeters	Range	Scale Div.	Ammeters	Voltmeters
10	50	**$68.25**	.....	500	50	**$73.50**	.....
15	30	**68.25**	**$60.00**	600	30	**76.25**	.....
25	50	**68.25**	.....	750	30	**79.50**	.....
50	50	**68.25**	.....	1000	50	**90.00**	.....
75	30	**68.25**	.....	1200	60	**95.25**	.....
100	50	**68.25**	.....	1500	30	**104.25**	.....
150	30	**68.25**	**61.50**	2000	40	**110.25**	.....
200	40	**68.25**	.....	2500	50	**123.75**	.....
300	30	**69.00**	**66.00**	3000	30	**136.50**	.....
400	40	**71.25**	.....	.....	....	.....	.....

MODEL 260 A.C. INSTRUMENTS



Accurate within 1 percent. Movable iron type; magnetically shielded. Surface type back connected, case of pressed steel, dull black finish. This instrument forms a part of a complete, matched line including voltmeters, ammeters, wattmeters, power factor meters, frequency meters and synchroscopes. Details furnished on request. Size of base, 7 31/32 inches; projection from panel, 4 3/32 inches; length of scale, 5.1 inches. Weight, 8 lbs.

Ammeters

Ammeters are for use on frequencies up to 500 cycles per second. Model 260 ammeter listed in one range only; employed generally with current transformers.

Price, Model **260** Ammeter.....**$52.50**

Voltmeters

For use on frequencies up to 125 cycles per second. With external resistors for ranges above 300 volts.

Volts	Scale Div.	Price Each	Volts	Scale Div.	Price Each
150	30	**$56.25**	600	60	**$70.50**
250	25	**57.75**	750	75	**72.50**
300	30	**58.50**	.....	....	.....

WESTON SWITCHBOARD INSTRUMENTS

MODEL 610 SWITCHBOARD D.C. INSTRUMENTS



Permanent magnet moving coil type; magnetically shielded. Accurate within 1 percent. Harmonizes with all Model 610 instruments. Flush type, back connected. Encased in pressed steel, dull black finish. Model 610 has 2 Mazda 6-volt, No. 40T-3, lamps that provide indirect full scale illumination free from shadows. Lamps are operated from an independent circuit that may be replaced by removing 4 screws which hold the bakelite front. Size at base, 4x4½ inches; projection from panel, ⅞ inch; scale length, 3½ inches. Weight, 2 pounds.

Range	Scale Div.	Ammeters	Voltmeters	Range	Scale Div.	Ammeters	Voltmeters
1	50	**$65.25**	.....	200	40	**$65.25**	.....
5	50	**65.25**	.....	250	50	**65.50**	.....
6	30	.....	.....	300	30	**66.00**	**$63.00**
10	50	**65.25**	.....	400	40	**58.25**	.....
15	30	**65.25**	**$57.00**	500	50	**70.50**	.....
25	50	**65.25**	.....	600	30	**73.25**	.....
50	50	**65.25**	.....	750	30	**76.50**	.....
75	30	**65.25**	.....	1000	50	**87.00**	.....
80	40	**65.25**	.....	1200	60	**92.25**	.....
100	50	**65.25**	.....	1500	30	**101.25**	.....
120	30	.....	.....	2000	40	**107.25**	.....
130	65	**65.25**	.....	2500	50	**120.75**	.....
150	30	**65.25**	**58.50**	3000	30	**133.50**	.....

MODEL 610 SWITCHBOARD A.C. INSTRUMENTS



Identical in construction with Model 610 D.C. instruments, described above. Power consumption: Voltmeters on 115 volts, 2.5 watts; on 25 or 60 cycles, 2.5 volt-amperes. Ammeter on 5 amperes, 1.1 watts; on 25 cycles, 1.1 volt-amperes; on 60 cycles, 1.4 volt-amperes.

Size at base, 4x4½ inches; projection from panel, ⅞ inch; scale length, 3½ inches. Weight, 2 pounds.

Ammeter

For use on frequencies up to 500 cycles per second. Listed in one range only; employed generally with current transformers; price shown covers instruments for currents up to 10 amperes with scales figured to correspond to transformers with which employed.

Price, Model **610** A.C. Ammeter.....**$49.50**

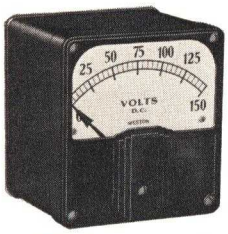
Voltmeters

For use on frequencies up to 125 cycles per second. With external resistors for ranges above 300 volts. For ranges between 301 and 750 volts a type 12 No. 1 resistance box mounted on studs at rear of instrument, is provided.

Volts	Scale Divs.	Price Each	Volts	Scale Divs.	Price Each
150	30	**$53.25**	300	30	**$55.50**

WESTON SWITCHBOARD INSTRUMENTS

MODEL 921 D.C. INSTRUMENTS



Accurate within 1 per cent. Permanent magnet moving coil type; magnetically shielded. Harmonizes with Models 922, 923, 924, 925, 926, 927, 928 and 929 instruments. With pressed steel case, dull black finish. Flush type, normally supplied, back connected cases. If surface type is desired, deduct **$3.00.**

This instrument can be used for remote indicating purposes; information on request.

Voltmeters have a sensitivity of approximately 100 ohms per volt and are self-contained up to 750 volts.

Size at base, 5¾x6 inches; projection from panel 5 inches. Weight 7 pounds.

Range	Scale Div.	Ammeters	Voltmeters	Range	Scale Div.	Ammeters	Voltmeters
10	50	**$71.25**	.....	300	30	**$72.00**	**$66.00**
15	30	**71.25**	**$63.00**	400	40	**74.25**	.....
25	50	**71.25**	.....	500	50	**76.50**	.....
50	50	**71.25**	.....	600	30	**79.25**	**70.50**
75	30	**71.25**	.....	750	30	**82.50**	**72.75**
100	50	**71.25**	.....	1000	50	**93.00**	.....
150	30	**71.25**	**63.75**	2000	40	**113.25**	.....
200	40	**71.25**	.....	.....	....	.....	.....

Higher ranges available through use of external shunts.

MODEL 924 SWITCHBOARD A.C. INSTRUMENTS



Accurate within 1 per cent. Movable iron type; magnetically shielded. Flush type back connected, case, pressed-steel, dull black finish. For surface type deduct **$3.00.** Embossed or smooth fronts. Power consumption: Voltmeters on 115 volts, 4.6 watts; on 60 cycles, 4.6 volt-amperes. Ammeters on 5 amperes .55 watts; on 60 cycles .59 volt-amperes. Size at base, 5¾x6 inches; length of scale, 5.12 inches; weight 6.8 pounds.

Ammeter

For use on frequencies up to 125 cycles per second. Listed in ranges 1 to 10 amperes; can be furnished in same ranges but scaled for use with current transformers at same price. Price shown covers instrument for currents up to 10 amperes with scales figured to correspond to transformers with which employed.

Price, Model **924** Ammeter.....each **$55.50**

Voltmeters

For use on frequencies up to 125 cycles per second. Self-contained up to 500 volts. External resistors required for 600 and 750 volts. Potential transformer must be used above 750 volts.

Range	Scale Div.	Price Each	Range	Scale Div.	Price Each
150	30	**$59.25**	500	50	**$64.50**
250	50	**60.75**	600	60	**81.00**
300	30	**61.50**	750	30	**83.25**

MINERALLAC STATISCOPE

A glow-tube form of electroscope, encased in hard rubber, that will indicate the presence of potential when held in the changing static field such as is found surrounding: Alternating current circuits; pulsating direct current; X-ray equipment; high frequency; condenser discharges; automobile ignition, etc.

POCKET TYPE



Pocket type is intended for all around testing where a sensitive instrument is desired and is specially adapted for use on underground cable work. It is designed to give positive indication on 2000 volts and up in contact with outside of conductor insulation and at a point several times the flashover distance on non-insulated conductors.

With this instrument it is not necessary to touch conductor carrying high potential.

Price, Pocket Type Statiscope.....each **$4.50**

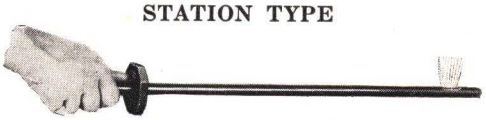
OVERHEAD TYPE



This type is a less sensitive instrument, which makes it specialy adaptable for overhead lines and is furnished with a telescope cover, which makes it suitable for direct current contact up to and including 2300 volts, when held in operator's hands. When closed, instrument is 7⅛ inches long, ¾ inches in diameter and when extended, 12 inches long. A red fibre ring is placed on cover to indicate handle portion of instrument.

Price, Overhead Type.....each **$8.00**

STATION TYPE



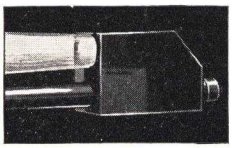
Recommended for use in stations, sub-stations and on outdoor high voltage equipment. Made from hard rubber rod, 24 inches long and has 12 inches of solid rubber between handle guard and internal metal parts. No metal exposed. Designed to give positive indication on 2000 volts and up.

Breakdown strength is well over 75,000 volts. Direct contact is not necessary as the instrument will indicate at a point well over flashover dis tance.

As this instrument is entirely self-contained and its sensitivity is independent of external capacities, it may be attached to an extension handle to reach inaccessible conductors.

Price, Station Type.....each **$7.00**

PERISCOPE ATTACHMENT



The periscope attachment is for use with Station Type Statiscope and is recommended when Statiscope is to be used in brightly-lighted places such as outdoors in bright sunshine, when it is difficult to distinguish the glow in the tube. It increases the visibility of the glow considerably.

Price, Periscope Attachment.....each **$3.00**

DONGAN TRANSFORMERS

DONGAN ENCASED—DOUBLE WOUND—STEP-DOWN TRANSFORMERS—DRY TYPE



No. 35-10



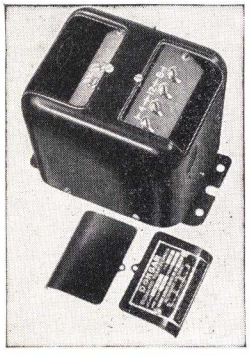
No. 35-100

Manufacturing plants, mills, mines, schools, etc., for general lighting, supplementary machine lighting, or the operation or insulation of 115 or 230 volt apparatus from power circuits.

In these transformers both primary and secondary are in separate wiring compartments, thus meeting National Electrical Code Ruling without the use of additional wiring boxes.

Cat. No.	Capacity V.A.	Approx. Size In. Long	Wide	High	Approx. Wt. Lbs.	Code
Primary 460 and 230 Volts Secondary 115 Volts—Cycles 50/60						
35-05	50	6½	4½	4	5½	Guest
35-05CB	50	6½	4½	4	5½	Gable
35-10	100	6½	4½	4	7¼	Gleam
35-10CB	100	6½	4½	4	7¼	Gaily
35-15	150	7½	4½	5¼	10¼	Globe
35-15CB	150	7½	4½	5¼	10¼	Galea
35-25CB	250	7½	4½	5½	13	Gassy
Primary 460 and 230 Volts—Secondary 230 and 115 Volts Cycles 50/60						
35-25	250	7½	4½	5½	13	Grain
35-50	500	11 5/16	6⅜	5 5/16	24½	Glide
35-75	750	11 5/16	6⅜	5 5/16	30½	Grand
35-100	1000	12⅜	7⅝	5 5/16	35	Guard
35-150	1500	13⅜	7⅝	5 5/16	48	Glade
35-200	2000	10	14	8⅞	78	Gypsy
35-300	3000	10¾	14	8⅞	115	Glare
35-500	5000	13⅝	14	8⅞	140	Grace
35-750	7500	12¾	20	13	217	Great
35-1000	10000	13¾	20	13	272	Giant
35-1500	15000	14¾	20	13	328	Groat
35-2500	25000	24	21	20½	500	Grave
35-3750	37500	26	22	23	670	Gyppo

All types can also be furnished with Primary of 575 Secondaries of 230 and 115. Can also be furnished in 25 cycle.



DONGAN SIGNALING TRANSFORMERS

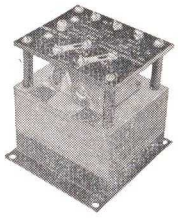
For the operation of A.C. annunciators, controls, horns, recorders, relays, etc., requiring greater low voltage power than can be supplied from bell ringing transformers. Designed for intermittent duty.

Cat. No.	Pri. Volts	V.A. Cap.	Approx. Size, Ins. Length	Width	Height	Approx. Wt.Lbs.	Code
36-05	115	50	6½	4½	5⅜	4¼	Saber
36-10	115	100	6½	4½	5⅜	5¼	Scarf
36-25	115	250	10¼	5⅞	4⅝	11	Sedan
36-50	115	500	10¾	5⅞	4⅝	16½	Smart
36-100	115	1000	13	7¾	6	34¼	Solid

Can also be furnished with 230 or 460 volt primary.

DONGAN TRANSFORMERS

MACHINE TOOL CONTROL TRANSFORMERS

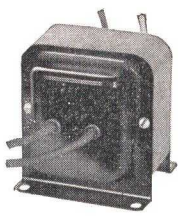


Used on machine tool panels for the operation of relays, solenoids, etc. Equipped with terminal board, front mounted, with primary and secondary terminal screws, making for ease in installation.

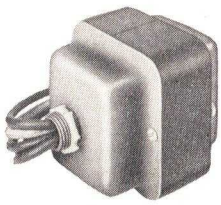
Cat. No.	Capacity V.A.	App. Size Inches L.	W.	H.	Overload Protection	Code
Primary 460 and 230—Secondary 115 and 95 Cycles 50/60						
50-07CB	75	5	4½	4⅜	Circuit Brkr.	Main
50-15CB	150	5	4½	4 11/16	Circuit Brkr.	Merry
50-25CB	250	5	4½	5 1/16	Circuit Brkr.	Moran
50-50CB	500	7⅞	5¾	5 5/16	Fused	Mulct
50-75CB	750	9¼	5¾	5 5/16	Fused	Mitch
50-100CB	1000	7⅝	7½	6¾	Fused	Morow
50-150CB	1500	9⅛	7½	6¾	Fused	Milly

Can also be furnished without overload protection, either with or without panelboard. Also manufactured in 575 volt primary. 25 cycle types may also be furnished on special order.

DONGAN CONTROL TRANSFORMERS



Type A-C-D H-HL-K and L



Type PM

Furnishing A.C. power necessary to operate relays, solenoids, thermostats, small motors, etc., where lower than line voltage is required. Open frame construction with primary and secondary leads. The "PM" type especially designed for mounting on outside of starter boxes with leads on inside.

Cat. No.	Volts Pri.	Sec.	V.A. Cap.	Dimens., Ins. L.	W.	H.	Approx. Wt.Lbs.	Code
33-025C	115	8–16–24	25	2⅞	2½	2¾	1¾	Cabal
33-075A	115	6	75	3 7/16	3 7/16	3 13/16	3½	Cabin
33-200A	115	6	200	5⅜	3 13/16	4½	9	Cable
33-250A	115	6	250	5⅞	3 13/16	4½	11	Cacao
33-050K	115	24	50	3 7/16	3 7/16	3 13/16	3½	Cache
33-075K	115	24	75	3 7/16	3 7/16	3 13/16	3½	Caddy
33-100K	115	24	100	4 5/16	3 7/16	3 13/16	5½	Cadet
33-050H	230	115	50	3 7/16	3 7/16	3 13/16	3½	Cadge
33-100H	230	115	100	4 5/16	3 7/16	3 13/16	5½	Cadre
33-050L	460	115	50	3 7/16	3 7/16	3 13/16	3½	Cairn
33-075L	460	115	75	3 7/16	3 7/16	3 13/16	3½	Calin
33-100L	460	115	100	4 5/16	3 7/16	3 13/16	5½	Calla
33-025PM	460/230	115	25	3 5/16	2½	2½	2	Calve
33-050PM	460/230	115	50	3 13/16	3½	3½	3¼	Calyx
33-100PM	460/230	115	100	4½	3 7/16	3 7/16	5¼	Camel
33-150PM	460/230	115	150	5⅛	4½	3¾	6¾	Cameo
33-250PM	460/230	115	200	6⅛	4½	3¾	10¼	Canal
33-050HL	460/230	115	50	3 7/16	3 7/16	3 13/16	3½	Candy
33-100HL	460/230	115	100	4 5/16	3 7/16	3 13/16	5½	Canny
33-150HL	460/230	115	150	4⅞	3 13/16	4½	7¼	Canoe
33-250HL	460/230	115	250	5⅞	3 13/16	4½	11	Canto
33-100D	460	230	100	4 5/16	3 7/16	3 13/16	5½	Caper

Other capacities and voltages quoted on request.

JEFFERSON MERCURY LAMP TRANSFORMERS



The liberal design and careful construction of Jefferson Transformers exceed the lamp manufacturer's specifications covering transformers. Years of continued use have proved the excellence of these transformers in thousands of installations. Steel mills, paper mills, motor car and body plants, foundries, textile mills, warehouses, tool rooms, gas stations and areas throughout the country are depending on them for daily uninterrupted service.

H-1 400-Watt—Indoor Type for Wall Mounting and Fixture Suspension Installation

Cat. No.	Primary Voltage	Freq.	Cap. V.A.	Net Wt. Lbs.	Price Each
232-811*	100-107-115-123	60	650	25¼	$15.35
232-813*	200-215-230-245	60	650	25¼	15.35
232-821†	100-107-115-123	60	450	27¾	20.90
232-823†	200-215-230-245	60	450	27¾	20.90

H-1 400-Watt—Weatherproof Wall Mounting Type For Outdoor Service

232-611*	100-107-115-123	60	650	29½	16.75
232-613*	200-215-230-245	60	650	29½	16.75
232-621†	100-107-115-123	60	450	30	22.35
232-623†	200-215-230-245	60	450	30	22.35

H-1 400-Watt—Weatherproof Pole Mounting Type For Outdoor Flood Lighting

232-711*	100-107-115-123	60	650	31½	29.00
232-713*	200-215-230-245	60	650	31½	29.00
232-721†	100-107-115-123	60	450	32	39.00
232-723†	200-215-230-245	60	450	32	39.00

H-1 400-Watt—Weatherproof Pole Mounting Type With Fixture Mounting Support

232-741*	100-107-115-123	60	650	33	35.50
232-743*	200-215-230-245	60	650	33	35.50
232-751†	100-107-115-123	60	450	34	48.00
232-753†	200-215-230-245	60	450	34	48.00

H-2 250-Watt—Indoor Type for Wall Mounting and Fixture Suspension Installation

232-841*	100-107-115-123	60	600	25	15.35
232-843*	200-215-230-245	60	600	25	15.35
232-851†	100-107-115-123	60	300	27½	20.90
232-853†	200-215-230-245	60	300	27½	20.90

Two-Lamp Transformers for 400-Watt Mercury Lamps Indoor Type

232-901†	100-107-115-123	60	875	46	30.45
232-903†	200-215-230-245	60	875	46	30.45

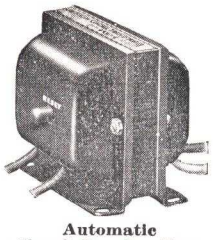
Outdoor Type

232-911†	100-107-115-123	60	875	56	54.00
232-913†	200-215-230-245	60	875	56	54.00

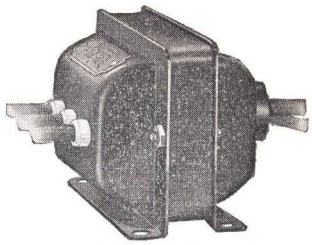
*Normal Power Factor Transformers.

†High Power Factor Transformers.

JEFFERSON CONTROL TRANSFORMERS



Automatic Circuit Breaker Type



Standard Type

Jefferson control transformers were designed for all remote control equipment, including magnetic type switches for air conditioning, oil burners, automatic stokers, recording devices, gas, water and oil valve operation, fire alarms, low-voltage motors, low-voltage lighting, spark plug testers, etc.

The coils are layer built, automatically wound and have triple insulation. They are vacuum treated, impregnated and baked.

The automatic circuit breaker type provides absolute protection to the transformer and all apparatus connected to the secondary circuit. A push button permits quick and convenient resetting of breaker apparatus, which is non-tamperable.

Cat. No.	Capacity V.A.	Primary Volts	Primary Cycles	Secondary Voltage	Wt.Lb. Each	Price Each
Standard Control Transformers						
630–121	7.5	115	50–60	8	1¼	$3.45
630–104	10	115	50–60	12	1¼	3.65
630–101	15	115	50–60	8	1½	4.05
637–101	25	115	50–60	8–16–24	2¼	5.25
637–111	35	115	50–60	8–16–24	2¾	6.05
637–121	50	115	50–60	8–16–24	4	7.20
637–131	75	115	50–60	8–16–24	4½	8.85
637–161	100	115	50–60	8–16–24	5¼	10.45
637–171	150	115	50–60	8–16–24	8½	13.90
637–201	25	115	50–60	24	2¼	4.75
637–211	35	115	50–60	24	2¾	5.50
637–221	50	115	50–60	24	3½	6.55
637–231	75	115	50–60	24	4½	8.05
637–261	100	115	50–60	24	5¼	9.50
637–271	150	115	50–60	24	8½	12.65
*637–241	100	115	50–60	6	5½	10.75
*637–251	50	115	50–60	6	3¾	7.80
Automatic Circuit Breaker Type Control Transformers						
637–301	25	115	50–60	24	3¼	9.85
637–311	35	115	50–60	24	3¼	11.55
637–321	50	115	50–60	24	3½	13.20
637–331	75	115	50–60	24	5	16.80
637–361	100	115	50–60	24	5¼	20.15
637–371	150	115	50–60	24	8½	26.40
Loom Warp Stop Transformers						
637–401	25	115	50–60	12	2¾	4.95
637–411	25	230	50–60	12	2¾	5.20
637–421	25	460	50–60	12	2¼	5.45
637–431	25	575	50–60	12	2¼	5.70
High Reactance Control Type — Standard Mounting Feet						
631–501	15	115	60	25	2	4.50
631–511	20	115	60	25	2¾	4.95
631–521	25	115	60	25	3½	5.90
631–531	35	115	60	25	4	6.85
Mounted on Outlet Box Plate						
631–621	15	115	60	25	2¾	5.10
631–631	20	115	60	25	3¼	5.50
631–641	25	115	60	25	3¾	6.50
631–651	35	115	60	25	4½	7.45

*Equipped with primary cord and plug.

JEFFERSON TRANSFORMERS

POWER CIRCUIT DRY TYPE

Double-Wound Types



The double-wound and auto transformers provide a type for every demand. Separate enclosed compartments are provided for primary and secondary connections, which may be brought into the transformer through either rigid or flexible conduit or armored cable, to meet N.E.C. rulings.

Double-wound types enjoy a wide and varied demand. For signaling system of schools, factories, mines, etc., for remote control switching, for lighting purposes, to operate low voltage equipment from power lines, for insulating circuits from power and lighting supply lines, for emergency lighting systems, etc.

The high degree of efficiency resulting from the use of Jefferson Power Circuit Transformers is due largely to the vast experience of Jefferson engineers in the design and production of this type of transformer as well as transformers for the operation of mercury lamps, luminous tube (Neon) signs, oil burners, street lights, railway signals, controls and many other operations.

50/60-Cycle Double-Wound Transformers

Cat. No.	KVA Output	Overall Dimens., In. Height	Width	Depth	Net Wt.Lbs.	List Price
230 Volt Primary—115 Volt Secondary						
240-101	.050	6⅞	3 15/16	3 9/16	6	**$12.00**
240-111	.075	7¼	3 15/16	3 9/16	7	**14.00**
240-121	.100	7⅝	3 15/16	3 9/16	8	**16.00**
240-131	.150	9	4 11/16	4½	12	**19.00**
240-141	.250	10⅜	4 11/16	4½	17	**22.00**
240-151	.500	11½	5⅛	6 1/16	26	**31.00**
240-161	.750	13	5⅛	6 1/16	32	**39.00**
460 Volt Primary—115 Volt Secondary						
240-501	.050	6⅞	3 15/16	3 9/16	6	**12.00**
240-511	.075	7¼	3 15/16	3 9/16	7	**14.00**
240-521	.100	7⅝	3 15/16	3 9/16	8	**16.00**
240-531	.150	9	4 11/16	4½	12	**19.00**
240-541	.250	10⅜	4 11/16	4½	17	**22.00**
240-551	.500	11½	5⅛	6 1/16	26	**31.00**
240-561	.750	13	5⅛	6 1/16	32	**39.00**
460/575 Volt Primary—115/230 Volt Secondary						
240-301	.050	6⅞	3 15/16	3 9/16	6	**13.00**
240-311	.075	7¼	3 15/16	3 9/16	7	**15.00**
240-321	.100	7⅝	3 15/16	3 9/16	8	**17.00**
240-331	.150	9	4 11/16	4½	13	**21.00**
240-341	.250	10⅜	4 11/16	4½	17	**24.00**
240-351	.500	11½	5⅛	6 1/16	26	**34.00**
240-361	.750	13	5⅛	6 1/16	32	**42.00**
230/460 Volt Primary—115/230 Volt Secondary						
240-401	1.0	13⅞	5⅛	6	38	**50.00**
240-411	1.5	13¾	8½	7⅝	61	**61.00**
240-421	2.0	14⅞	8½	7⅝	71	**74.00**
240-431	3.0	17¾	11	8⅜	100	**100.00**
240-441	5.0	20¾	11	8⅜	162	**145.00**
575 Volt Primary—115/230 Volt Secondary						
240-601	1.0	13⅞	5⅛	6	38	**52.00**
240-611	1.5	13¾	8½	7⅝	61	**64.00**
240-621	2.0	14⅞	8½	7⅝	71	**78.00**
240-631	3.0	17¾	11	8⅜	100	**104.00**
240-641	5.0	20¾	11	8⅜	162	**152.00**

JEFFERSON AUTO TRANSFORMERS

AUTO TYPE POWER CIRCUIT TRANSFORMERS

Auto transformers, also commonly known as single-wound transformers, compensators or balance coils, have a limited application for making voltage transformations. In instances where this type of transformer can be utilized, an appreciable saving in cost may be effected as compared with a double-wound transformer installation.

Auto transformers may be installed in compliance with the National Electrical Code for purposes and under conditions as follows:

(a) For derived lighting systems where the system supplied contains an identified grounded wire which is solidly connected to a similar identified grounded wire of the supply system.

(b) For use in motor starters.

(c) For supplying circuits wholly within apparatus which also contains the auto transformers.

(d) For fixed voltage adjustment on existing unidentified power circuits.

Installations in which auto transformers are used as balance coils for derived lighting systems do not conform to the National Electrical Code.

Standard auto transformers are furnished only with a ratio of 230 volts to 115 volts.

50/60-Cycle Auto Transformers

Voltage Ratio: 115/230 Volts

Cat. No.	KVA Output	Overall Dimens., In. Height	Width	Depth	Net Wt.Lbs.	List Price
241-101	.100	6⅞	3 15/16	3 9/16	6	**$12.00**
241-111	.150	7⅛	3 15/16	3 9/16	7	**14.00**
241-121	.250	7⅝	3 15/16	3 9/16	8	**18.00**
241-131	.500	10⅜	4 11/16	4½	17	**22.00**
241-141	.750	10⅞	5⅛	6	20	**27.00**
241-151	1.0	11½	5⅛	6	26	**31.00**
241-161	1.5	13	5⅛	6	31	**39.00**
241-171	2.0	13½	5⅛	6	36	**47.00**
241-181	3.0	13½	8½	7⅝	56	**58.00**
241-201	5.0	15⅜	8½	7⅝	73	**82.00**
241-231	7.5	18¼	11	8⅜	112	**110.00**
241-241	10.0	20⅝	11	8⅜	155	**137.00**

General Information

The transformers listed on this page are normally used as stepdown units, but they may be employed to make the reverse transformation by using the low voltage windings as the primary.

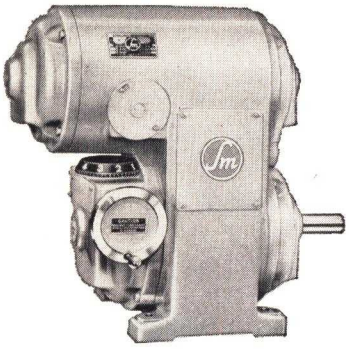
When desired, transformers of 750 VA or under can be supplied with "off and on" switch or single receptacle, and 100 VA to 750 VA capacity types with patented circuit breaker for overload and short circuit protection. Nos. 240-101, 240-111, 240-501 and 240-511 transformers are regularly equipped with fuse for short circuit protection.

Isolating Service

Jefferson (Double Wound) Transformers can be used to isolate (1) A lighting circuit from a power circuit; (2) A single wire lighting circuit such as is used in mines; (3) Telephone and signal circuits from power circuits; (4) Re-establishing ground at some variant of potential other than that provided on the power circuit; and (5) Eliminating any circuit ground.

STERLING ELECTRIC POWER DRIVES

IMPROVED STERLING SPEED-TROL

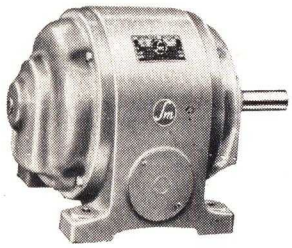


Flexible, positive power with finger-tip speed control for production variables, improved quality and maximum efficiency.

These models are available with feet or footless, face or flange mounted. Sterling Speed-Trol Type FE available in NEMA dimensions.

Type	H.P.	R.P.M.
Speed-Trol, Type FE	½ to 15	2000–250
Speed-Trol, Type FEA	½ to 15	890– 54
Speed-Trol, Type FEB	½ to 15	324–6½

The IMPROVED STERLING KLOSD



A constant normal speed motor in one streamlined, protected case with perfectly balanced engineering that assures smooth, dependable, long-life operation.

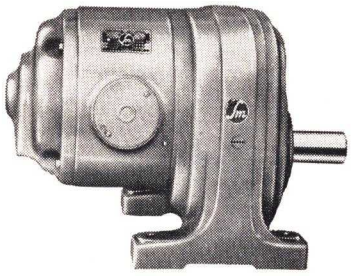
Available footless or with feet, face or flange mounted.

Type	H.P.	R.P.M.
Sterling Klosd, Type F	¾–20	3600–600
Sterling Klosd, Splash Proof, Type FO	¾–20	3600–600

All Sterling Electric Power Drives are available in single phase and 3 phase, 110 220, 440, 208, 380 volts.

STERLING ELECTRIC POWER DRIVES

The IMPROVED STERLING SLO-SPEED



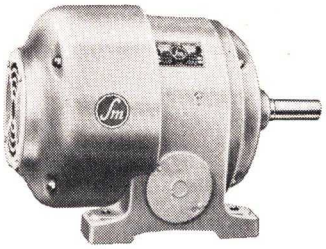
A highly efficient electric power drive in one compact unit for the one best constant slow speed. Available with Class 1, 2 or 3 gears for light, medium or heavy duty.

Type	H.P.	R.P.M.
Sterling Slo-Speed, Type FA	½ to 15	780–190
Sterling Slo-Speed, Type FB	½ to 15	280– 20

All Sterling Slo-Speed electric power drives available in AGMA speed classifications.

Available footless or with feet, face or flange mounted.

The IMPROVED STERLING KLOSD-TITE FAN COOLED



A totally-enclosed electric motor of normal speed for atmospheres containing non-explosive dusts, vapors or dirt and other injurious foreign matter.

Type	H.P.	R.P.M.
Sterling Klosd-Tite Enclosed, Type FW	½– 5	3600–600
Sterling Klosd-Tite Fan Cooled, Type FWF	2–20	3600–600
Sterling Pipe-Ventilated Type FD	1–20	3600–600

Available footless or with feet, face or flange mounted.

All Sterling Electric Power Drives are available in single phase and 3 phase, 110, 220, 440, 208, 380 volts.

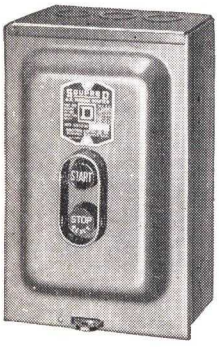
SQUARE D ELECTRIC MOTOR CONTROL

The Square D line of electric motor control and accessories is very complete and includes many standard devices such as relays, resistors, multi-speed starters and timers, which cannot be listed because of space limitation.

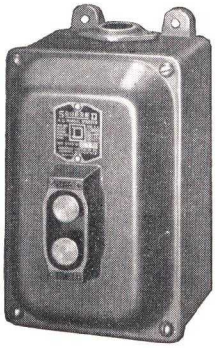
In addition, Square D manufacturers complete lines of special control. Among these are welder control, pump control, machine tool panels, and hoist and conveyor controls.

A. C. MANUAL STARTERS—LINE VOLTAGE TYPE CLASS 2510

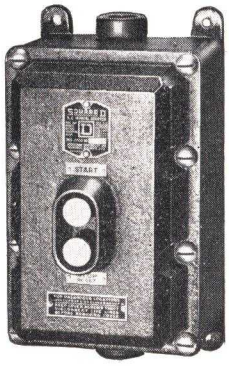
Melting Alloy Type Thermal Overload Relays



General Purpose Enclosure



Water and Dust-Tight Enclosure



Class I Group D Enclosure



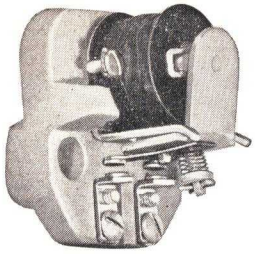
Reversing or Two-Speed Starter

Class 2510											NON-REVERSING
No. of Poles	Size	Rating			General Purpose Enclosure NEMA Type 1		Water and Dust-Tight Enclosures NEMA Type 4 or 5		Class I Group D or Class II Group G NEMA Types 7 or 9		
		Volts	Maximum Horsepower		Type	Price	Type	Price	Type	Price	
			Polyphase	Single Phase							
2 Pole	0	110 220	... ...	1 1½	W-7	$ 9.00	W-8	$23.50	W-22	$30.	
	I	110 220	... ...	1½ 3	W-14	11.50	W-15	29.	W-24	35.	
3 Pole	0	110 208-220 440-550	1½ 2 2	1 1½ ..	W-5	10.	W-6	24.50	W-23	31.	
	I	110 208-220 440-550	3 5 7½	1½ 3 ...	W-10	12.50	W-11	30.	W-25	36.	
Class 2510											REVERSING
3 Pole	0	208-220 440-550	2 2	... ...	W-17	30.	W-32	55.	....	....	
	1	208-220 440-550	5 7½	... ...	W-21	39.	W-33	70.	....	....	
Class 2510											TWO-SPEED, STAR CONNECTED, SEPARATE WINDING TYPE ONLY
3 Pole	0	208-220 440-550	2 2	... ...	W-16	30.	W-30	55.	....	....	
	I	208-220 440-550	5 7½	... ...	W-20	39.	W-31	70.	....	....	

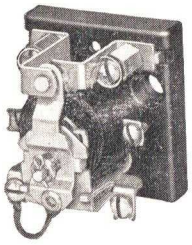
Prices include one thermal overload relay and thermal unit for 2 pole starters, two relays and thermal units for 3 pole starters.

ORDERING INSTRUCTIONS: Specify class number, type, horsepower, voltage, phase and full load current of motor. Order thermal relays by relay number.

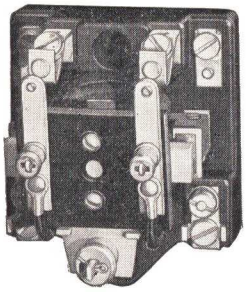
SQUARE D A.C. MAGNETIC RELAYS — CLASS 8501



Class 8501, Type JN-1



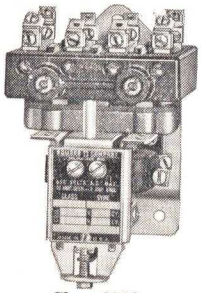
Class 8501, Type JO-10



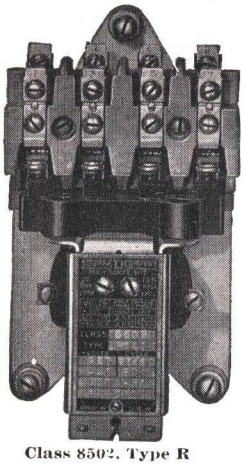
Class 8501, Type K-15

Description	No. of Poles Normally Open	No. of Poles Normally Closed	Non-Inductive Ampere Rating	Maximum Single Phase Horsepower 110 V.	Maximum Single Phase Horsepower 220 V.	General Purpose Enclosure NEMA Type 1 Type	General Purpose Enclosure NEMA Type 1 Price	Open Type Type	Open Type Price
25-60 CYCLES									**6-220 VOLTS**
Single Pole, Single Throw	1	0	15★	½	¾	JNG-1	**$3.75**	JN-1	**$2.50**
Double Pole, Single Throw	2	0	10	½	½	JNG-2	**5.00**	JN-2	**3.75**
	1	1	10	½	½	JNG-3	**5.65**	JN-3	**4.40**
	0	2	10	½	½	JNG-4	**5.65**	JN-4	**4.40**
Single Pole, Single Throw	1	0	15	½	¾	JG-9	**4.40**	JO-9	**3.15**
Single Pole, Double Throw	....	....	10†	½	¾	JG-10	**5.00**	JO-10	**3.75**
25 CYCLES—110 VOLTS MAX.									**60 CYCLES—220 VOLTS MAX.**
Single Pole, Single Throw	1	0	15★	½	¾	HG-11	**6.25**	H-11	**5.00**
	0	1	3	..	..	HG-22	**7.50**	H-22	**6.25**
Single Pole, Double Throw	....	....	3	..	..	HG-18	**8.15**	H-18	**6.90**
Double Pole, Single Throw	2	0	10	½	¾	HG-15	**7.50**	H-15	**6.25**
	0	2	3	..	..	HG-24	**8.75**	H-24	**7.50**
Two Pole, Double Throw	....	....	3	..	..	HG-20	**10.00**	H-20	**8.75**
S.P. S.T. 3 Wire Thermo.	....	....	10	½	¾	HG-26	**9.40**	H-26	**8.15**
S.P. D.T. 3 Wire Thermo.	....	....	3	..	..	HG-28	**10.65**	H-28	**9.40**
25-60 CYCLES									**12-220 VOLTS**
Single Pole, Single Throw	1	0	15★	**1**	**1½**	KG-11	**10.00**	K-11	**8.75**
	0	1	5	..	..	KG-22	**10.00**	K-22	**8.75**
Single Pole, Double Throw	....	....	5	..	..	KG-18	**11.25**	K-18	**10.00**
Double Pole, Single Throw	2	0	15	**1**	**1½**	KG-15	**11.25**	K-15	**10.00**
	0	2	5	..	..	KG-24	**11.25**	K-24	**10.00**
Two Pole, Double Throw	....	....	5	..	..	KG-20	**15.00**	K-20	**13.75**
S.P. S.T. 3 Wire Thermo.	....	....	15	**1**	**1½**	KG-30	**12.50**	K-30	**11.25**
D.P. S.T. 3 Wire Thermo.	....	....	15	**1**	**1½**	KG-32	**13.75**	K-32	**12.50**

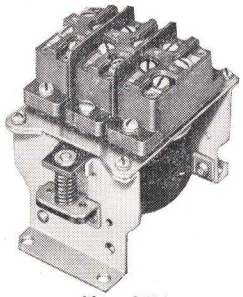
★Double Break Contacts †Common Connection



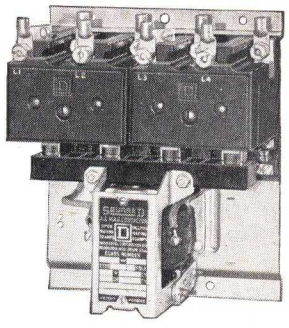
Class 8502
Type QO-40



Class 8502, Type R



Class 8501
Type AO-3
3 Poles, Double Throw, A.C.



Class 8502
Size II, Type TO-6
Four Pole, Open Type

SQUARE D A. C. MAGNETIC CONTACTORS — CLASS 8502

WITHOUT OVERLOAD PROTECTION

25-60 CYCLES 110-600 VOLTS **CLASS 8502** **Prices include interlock for 3-wire control**

No. of Poles	Size	8 Hour Ampere Ratings		General Purpose Enclosure NEMA Type 1		Water-tight Enclosure NEMA Type 4		Dust-tight Enclosure NEMA Type 5		For Hazardous Locations: Class II, Group G NEMA Type 9		For Hazardous Locations: Class I, Group D NEMA Type 7		Open Type		Horsepower Ratings	
		En-closed	Open	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price	Volts	Max. H.P.
2 Pole Single Phase	OO	9	10	QG-30W	$ 10.	.....	....	.....	....	....	....	....	....	QO-30W	$ 8.75	110 220	½ ¾
	O	13.5	15	RG-30W	$ 12.50	RW-30W	$28.75	Use NEMA Type 4		RE-30W	$28.75	Use Size I		RO-30W	$ 11.25	110 220	1 1½
	I	22.5	25	SG-8	$ 15.	SW-8	$ 31.	Use NEMA Type 4		SE-8	$ 31.	SR-8	$ 61.	SO-8	$ 13.75	110 220	1½ 3
	II	45	50	TG-2	$ 28.75	TW-2	$ 63.	TD-2	$ 49.	TE-2	$ 78.	TR-2	$110.	TO-2	$ 25.	110 220	3 7½
	III	90	100	UG-2	$ 50.	UW-2	$ 96.	UD-2	$ 74.	UE-2	$116.	UR-2	$156.	UO-2	$ 41.	110 220	7½ 15
	IV	135	150	VG-2	$120.	VW-2	$199.	VD-2	$159.	VE-2	$233.	....	....	VO-2	$101.	....	... ...
	V	270	300	G-2	$218.	GW-2	$309.	GD-2	$309.	GE-2	$370.	....	....	GO-2	$186.	.....	...
3 Pole Poly-phase	OO	9	10	QG-40W	$ 11.25	.....	....	.....	....	....	....	....	....	QO-40W	$ 10.	208–220 440–550	1 1
	O	13.5	15	RG-40W	$ 13.75	RW-40W	$ 30.	Use NEMA Type 4		RE-40W	$ 30.	Use Size I		RO-40W	$ 12.50	208–220 440–550	2 2
	I	22.5	25	SG-10	$ 16.25	SW-10	$ 33.	Use NEMA Type 4		SE-10	$ 33.	SR-10	$ 63.	SO-10	$ 15.	208–220 440–550	5 7½
	II	45	50	TG-4	$ 31.	TW-4	$ 65.	TD-4	$ 51.	TE-4	$ 80.	TR-4	$113.	TO-4	$ 27.50	208–220 440–550	15 25
	III	90	100	UG-4	$ 54.	UW-4	$100.	UD-4	$ 78.	UE-4	$120.	UR-4	$160.	UO-4	$ 45.	208–220 440–550	30 50
	IV	135	150	VG-4	$128.	VW-4	$206.	VD-4	$166.	VE-4	$240.	....	....	VO-4	$109.	208–220 440–550	50 100
	V	270	300	G-3	$235.	GW-3	$326.	GD-3	$326.	GE-3	$388.	....	....	GO-3	$204.	208–220 440–550	100 200
4 Pole Poly-phase	OO	9	10	QG-50W	$ 15.	.....	....	.....	....	....	....	....	....	QO-50W	$ 13.75	220 440–550	1 1
	O	13.5	15	RG-50W	$ 17.50	RW-50W	$ 34.	Use NEMA Type 4		RE-50W	$ 34.	Use Size I		RO-50W	$ 16.25	220 440–550	2 2
	I	22.5	25	SG-12	$ 20.	SW-12	$ 36.	Use NEMA Type 4		SE-12	$ 36.	SR-12	$ 66.	SO-12	$ 18.75	220 440–550	5 7½
	II	45	50	TG-6	$ 40.	TW-6	$ 86.	TD-6	$ 65.	TE-6	$101.	TR-6	$133.	TO-6	$ 36.	220 440–550	15 25
	III	90	100	UG-6	$ 66.	UW-6	$126.	UD-6	$104.	UE-6	$146.	UR-6	$194.	UO-6	$ 58.	220 440–550	 50
	IV	135	150	VG-6	$171.	VW-6	$283.	VD-6	$224.	VE-6	$329.	....	....	VO-6	$153.	220 440–550	50 100
	V	270	300	G-4	$314.	GW-4	$446.	GD-4	$405.	GE-4	$528.	....	....	GO-4	$283.	220 440–550	100 200

Prices do not include push button stations.

The magnetic contactor provides a safe and convenient method of controlling an electric circuit. It permits control from one or more push button stations or automatic pilot control devices such as float switches, pressure switches or thermostats. It may be used for non-inductive loads such as resistors or for electric motor circuits if separate provision is made for overload protection.

For NEMA sizes 0 to III inclusive the Class 8502 contactors have straight line, vertical action from magnet to contacts. This eliminates flexible leads, permits extremely compact design and prevents accidental closing. The contacts are silver, double break. The contactors have a high current rupturing capacity. NEMA sizes IV and V have clapper type contactors.

Ordering Instructions

1. Specify class number, type, ampere rating, voltage, cycles and number of poles.
2. Order suitable push button stations from table below.

Start-Stop Push Button Stations

General Purpose—Standard Duty
Class **9001-B30** **$2.50**
General Purpose—Heavy Duty
Class **9001-GA-21** **7.50**
Water & Dust Tight—Standard Duty
Class **9001-BW40** **8.75**
Water & Dust Tight—Heavy Duty
Class **9001-GD21** **15.00**

SQUARE D A. C. MECHANICALLY HELD CONTACTORS — CLASS 8508

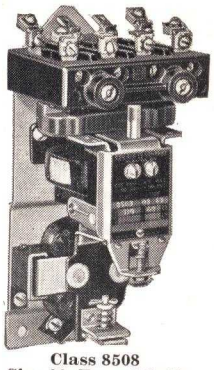
25-60 Cycles — **110-600 Volts**

No. of Poles	Non-Inductive Amperes Open Rating	General Purpose Enclosure NEMA Type 1		Open Type	
		Type	Price	Type	Price
2	10	QG-20	$15.00	QO-20	$13.75
	15	RG-20	17.50	RO-20	16.25
3	10	QG-30	16.25	QO-30	15.00
	15	RG-30	18.75	RO-30	17.50

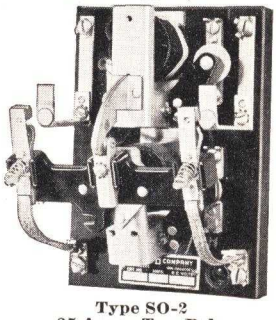
For Non-Inductive A. C. Loads Only* — **0-250 Volts**

2	25	SG-2	$31.00	SO-2	$29.00
	50	TG-2	59.00	TO-2	53.00
	100	UG-2	61.00	UO-2	55.00
	150	YG-2	159.00	YO-2	135.00
	300	ZG-2	270.00	ZO-2	219.00
3	50	TG-3	61.00	TO-3	55.00
	100	UG-3	68.00	UO-3	59.00
	150	YG-3	179.00	YO-3	146.00
	300	ZG-3	296.00	ZO-3	226.00

*Also available for D. C. operation. Apply to factory for information and prices.



Class 8508
Size 00, Type QO-40



Type SO-2
25 Amp., Two Pole

Description—The mechanically held contactor consists of two magnetic structures mechanically interlocked. Momentary energization of one operating coil closes the device. Energizing the second coil opens it. Electrical interlocks actuated by contactor movement disconnect the coil circuits to avoid burn-out if pilot circuit remains closed. Contactors of this type are used where magnetic hum is objectionable and to control Type C Mazda lamps.

Ordering Instructions—Specify class, type, control voltage, frequency and number of poles.

Push Button Stations

Standard duty, On-Off, Class 9001-B-37..... **$3.15**
Heavy duty, On-Off, Class 9001-GA210..... **7.50**

A.C. MAGNETIC LINE VOLTAGE STARTERS

Line voltage magnetic starters provide the simplest method for starting and stopping AC squirrel cage motors. They are extensively used where full motor starting torque may be safely applied to the driven machine and where the resulting current inrush is not objectionable.

Class 8536 non-reversing starters consist of magnetically actuated contactors, provided with motor overload protection. The magnetic contactors connect the motor windings to the power line at full voltage.

Class 8538 combination starters employ standard Class 8536 devices, enclosed in the same cabinet with motor circuit switches, Industrial Multibreakers, or Form W circuit breakers.

Combination starters provide greater safety because the cover of the enclosure is interlocked with the handle of the disconnect, so that the cabinet cannot be opened when the power is on. Combination starters take less mounting space and save the additional installation and wiring cost encountered with separate switches and starters.

Class 8736 reversing starters have two magnetic contactors mounted on a single base and mechanically interlocked to prevent the closing of one contactor until the other has opened. Thermal relays provide motor overload protection. In most sizes the contactors can be mounted either side by side or one above the other. This is a convenience where mounting space is a limiting factor.

Class 8702 reversing magnetic contactors are similar to the Class 8736 starters, except that no overload protection is provided.

Push buttons and selector switches in covers — Classes 8536 and 8538 starters in the smaller sizes may be furnished with Start-Stop Momentary contact push buttons or three position maintained contact selector switches mounted in the cover of the enclosure.

Dual voltage magnet coils—Sizes 0, 1, and 1½, 2 pole, single phase, starters have dual voltage magnet coils which can be connected for either 110 or 220 volts. The thermal overload relay should be selected for the 220 volt rating.

Motor overload protection—All Square D starters and controllers are equipped with overload relays which offer protection to the motor against continued operation when the line current drawn is dangerously high. Such conditions may be caused by overloading the driven machine, by excessively low line voltage, or by single phase operation of polyphase motors. (Continued on following page.)

SQUARE D A.C. MAGNETIC LINE VOLTAGE STARTERS

(Continued)

Thermal relays of either the **Melting Alloy** or **Bi-Metallic** types are available. Both perform similar functions in the protection of an electric motor, but their operating principles and construction features differ.

The melting alloy relay consists of block assembly with spring latch and contacts, and a detachable unit containing heater, melting pot and ratchet. Continued overcurrent through the heater melts the alloy, releasing the latch and causing the relay contacts to open.

Bi-metallic relays have a mechanism consisting of a heater element mounted in close proximity with a thermostatic bi-metal strip which trips a mechanical latch to open the relay contacts.

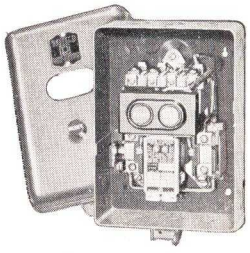
General purpose enclosures are of heavy gauge sheet steel, finished with one coat of baked aluminum, inside, and a coat of baked machine blue enamel outside. Sizes 0 to III have slip-on covers and knockouts in the top, bottom, back and sides. Sizes IV and V have hinged covers and knockouts in the top, bottom and sides.

Water-tight enclosures for sizes 0 to III are of cast iron with aluminum finish. Corrosion-resisting finish can be supplied without extra charge. Hinged covers are fastened by swing bolts, and rubber gaskets form a water-tight seal. Threaded conduit entrances are provided in top and bottom. Sizes IV and V water-tight enclosures are made from sheet steel and have corrosion-resisting finish.

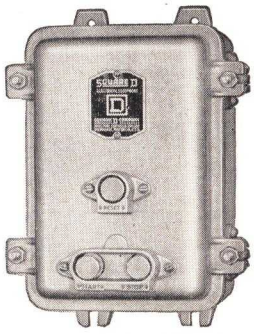
Dust-tight enclosures for sizes 0, 1 and 1½ are the same as water-tight enclosures. The larger sizes use heavy gauge sheet steel, finished in machine blue enamel, with felt gaskets between box and cover. Covers are hinged and provided with reinforcing straps, through which the swing bolts are fastened. Knockouts for conduit connections are at top and bottom.

Class II, Group G, dust-tight enclosures for sizes 0 to III are of cast iron with aluminum finish. The sealing surfaces between cover and case are machined in accordance with Underwriters' specifications. Threaded conduit entrances are at top and bottom. Heavy gauge sheet steel is used in the larger sizes.

Class I, Group D enclosures for sizes 0 to III air-break starters are heavy cast iron with aluminum finish. Covers and cases are machined to provide a metal-to-metal seal as required by Underwriters' specifications for Class I, Group D hazardous locations. Covers are fastened to the case by cap screws. Threaded conduit entrances are at top and bottom.



Class 8536, Type RG-10A
Size 0 Starter



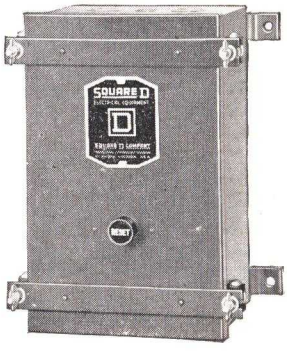
Class 8536, Type SW-18A
Water-tight Enclosure



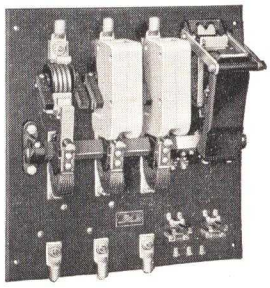
Class 8536, Type TG-2
General Purpose Enclosure



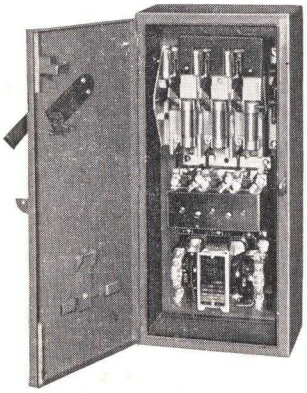
Class 8536, Type SR-18A
Class I, Group D Enclosure



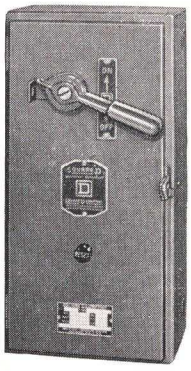
Class 8536, Type TD-10
Dust-tight Enclosure



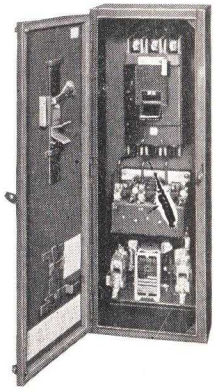
Class 8536, Type GO-1
Size V Starter



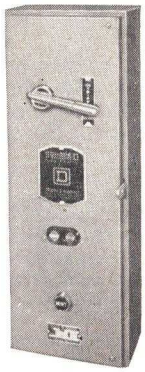
Class 8538, Type KTG-22
Combination Starter



Class 8538
General Purpose Enclosure



Class 8538, Type QTAG-1
Combination Starter



Class 8538, Type QTG-20
General Purpose Enclosure

SQUARE D A.C. MAGNETIC STARTERS — CLASS 8536

LINE VOLTAGE TYPE

Melting Alloy Type Thermal Overload Relays

25-60 CYCLES — **CLASS 8536** — **110-600 VOLTS**

No. of Poles	Size	Ratings: Volts	Ratings: Max HP Poly-phase	Ratings: Max HP Single phase	General Purpose Enclosure NEMA Type 1: Type	Price	Water-tight Enclosure NEMA Type 4: Type	Price	Dust-tight Enclosure NEMA Type 5: Type	Price	For Hazardous Locations: Class II Group G NEMA Type 9: Type	Price	Class I Group D NEMA Type 7: Type	Price	Open Type: Type	Price
2 Pole	O	110 220	....	1 1½	RG-8A	$ 17.50	RW-8A	•$ 40.	Use NEMA Type 4		RE-8A	•$ 45.	Use Size I		....	....
					Start-Stop push button in cover included in prices											
					RG-8B	$ 15.00	RW-8B	$ 31.	Use NEMA Type 4		RE-8B	$ 31.	Use Size I		RO-8	$ 13.75
					For use with separately mounted control station—not included in prices											
					RG-8C	$ 17.50	RW-8C	•$ 40.	Use NEMA Type 4		RE-8C	•$ 45.	Use Size I		....	....
					3-way selector switch (Manual-Off-Automatic) in cover included in prices											
	I	110 220	....	1½ 3	SG-14A	$ 20.00	SW-14A	•$ 43.	Use NEMA Type 4		SE-14A	•$ 48.	SR-14A	•$ 77.	....	....
					Start-Stop push button in cover included in prices											
					SG-14B	$ 17.50	SW-14B	$ 34.	Use NEMA Type 4		SE-14B	$ 34.	SR-14B	$ 63.	SO-14	$ 16.25
					For use with separately mounted control station—not included in prices											
					SG-14C	$ 20.00	SW-14C	•$ 43.	Use NEMA Type 4		SE-14C	•$ 48.	SR-14C	•$ 77.	....	....
					3-way selector switch (Manual-Off-Automatic) in cover included in prices											
	1½	110 220	....	3 5	SG-16A	$ 25.00	SW-16A	•$ 49.	Use NEMA Type 4		SE-16A	•$ 54.	SR-16A	•$ 83.	....	....
					Start-Stop push button in cover included in prices											
					SG-16B	$ 22.50	SW-16B	$ 40.	Use NEMA Type 4		SE-16B	$ 40.	SR-16B	•$ 69.	SO-16	$ 21.25
					For use with separately mounted control station—not included in prices											
					SG-16C	$ 25.00	SW-16C	•$ 49.	Use NEMA Type 4		SE-16C	•$ 54.	SR-16C	•$ 83.	....	....
					3-way selector switch (Manual-Off-Automatic) in cover included in prices											
3 Pole	O	110 208–220 440–550	1½ 2 2	1 1½ 1½	RG-10A	$ 20.00	RW-10A	•$ 43.	Use NEMA Type 4		RE-10A	•$ 48.	Use Size I		....	....
					Start-Stop push button in cover included in prices											
					RG-10B	$ 17.50	RW-10B	$ 34.	Use NEMA Type 4		RE-10B	$ 34.	Use Size I		RO-10	$ 16.25
					For use with separately mounted control station—not included in prices											
					RG-10C	$ 20.00	RW-10C	•$ 43.	Use NEMA Type 4		RE-10C	•$ 48.	Use Size I		....	....
					3-way selector switch (Manual-Off-Automatic) in cover included in prices											
	I	110 208–220 440–550	3 5 7½	1½ 3 5	SG-18A	$ 22.50	SW-18A	•$ 45.	Use NEMA Type 4		SE-18A	•$ 50.	SR-18A	•$ 80.	....	....
					Start-Stop push button in cover included in prices											
					SG-18B	$ 20.00	SW-18B	$ 36.	Use NEMA Type 4		SE-18B	$ 36.	SR-18B	$ 66.	SO-18	$ 18.75
					For use with separately mounted control station—not included in prices											
					SG-18C	$ 22.50	SW-18C	•$ 45.	Use NEMA Type 4		SE-18C	•$ 50.	SR-18C	•$ 80.	....	....
					3-way selector switch (Manual-Off-Automatic) in cover included in prices											
	II	110 208–220 440–550	7½ 15 25	3 7½ 10	TG-2	$ 38.00	TW-6	$ 71.	TD-10	$ 58.00	TE-14	$ 86.	TR-2	$119.	TO-2	$ 34.00
	III	110 208–220 440–550	15 30 50	7½ 15 25	UG-2	$ 63.00	UW-2	$109.	UD-2	$ 86.00	UE-2	$129.	UR-2	$169.	UO-2	$ 54.00
	IV	208–220 440–550	50 100	....	VG-2	$140.00	VW-2	$219.	VD-2	$179.00	VE-2	$253.	.....	.....	VO-2	$121.00
	V	208–220 440–550	100 200	. . . .	G-1	$283.00	GW-2	$374.	GD-2	$374.00	GE-2	$435.	....	....	GO-1	$251.00
4 Pole	O	220 440–550	2 2	....	RG-12A	$ 23.75	RW-12A	•$ 48.	Use NEMA Type 4		RE-12A	•$ 53.	Use Size I		....	....
					Start-Stop push button in cover included in prices											
					RG-12B	$ 21.25	RW-12B	$ 39.	Use NEMA Type 4		RE-12B	$ 39.	Use Size I		RO-12	$ 20.00
					For use with separately mounted contro. station—not included in prices											
					RG-12C	$ 23.75	RW-12C	•$ 48.	Use NEMA Type 4		RE-12C	•$ 53.	Use Size I		....	....
					3-way selector switch (Manual-Off-Automatic) in cover included in prices											
	I	220 440–550	5 7½	....	SG-20A	$ 26.25	SW-20A	•$ 50.	Use NEMA Type 4		SE-20A	•$ 55.	SR-20A	•$ 84.	....	....
					Start-Stop push button in cover included in prices											
					SG-20B	$ 23.75	SW-20B	$ 41.	Use NEMA Type 4		SE-20B	$ 41.	SR-20B	$ 70.	SO-20	$ 22.50
					For use with separately mounted control station—not included in prices											
					SG-20C	$ 26.25	SW-20C	•$ 50.	Use NEMA Type 4		SE-20C	•$ 55.	SR-20C	•$ 84.	....	....
					3-way selector switch (Manual-Off-Automatic) in cover included in prices											
	II	220 440–550	15 25	....	TG-4	$ 45.00	TW-8	$ 93.	TD-12	$ 71.00	TE-16	$108.	TR-4	$139.	TO-4	$ 41.00
	III	220 440–550	30 50	....	UG-4	$ 76.00	UW-4	$135.	UD-4	$113.00	UE-4	$155.	UR-4	$203.	UO-4	$ 68.00
	IV	220 440–550	50 100	....	VG-4	$184.00	VW-4	$295.	VD-4	$236.00	VE-4	$341.	.....	.....	VO-4	$165.00
	V	220 440–550	100 200	....	G-3	$361.00	GW-4	$494.	GD-4	$453.00	GE-4	$575.	.....	.....	GO-3	$330.00

NOTE—Prices do not include push button stations except where indicated. Prices include thermal relay units.

SQUARE D A.C. COMBINATION MAGNETIC STARTERS—CLASS 8538

LINE VOLTAGE TYPE WITH FUSIBLE OR NON-FUSIBLE DISCONNECT SWITCHES

Melting Alloy Type Thermal Overload Relays

25-60 CYCLES — **CLASS 8538** — **208-600 VOLTS**

No. of Poles	Size	Maximum Ratings: Volts	Maximum Ratings: H. P. Polyphase	Maximum Ratings: Fuse† Clip Size Amps.	General Purpose Enclosure NEMA Type 1: Type	General Purpose Enclosure NEMA Type 1: Price	General Purpose Enclosure with Felt Gaskets NEMA Type 1A: Type	General Purpose Enclosure with Felt Gaskets NEMA Type 1A: Price	Water-tight Enclosure NEMA Type 4: Type	Water-tight Enclosure NEMA Type 4: Price	Dust-tight Enclosure NEMA Type 5: Type	Dust-tight Enclosure NEMA Type 5: Price	For Hazardous Locations Class II, Group G NEMA Type 9: Type	For Hazardous Locations Class II, Group G NEMA Type 9: Price
3 Pole	O	208–550	2	None	KRG-11	$ 34.	KRS-11	$ 39.	KRW-2	$ 78.	KRD-2	$ 52.	KRE-2	$ 82.
		208–220	2	30	KRG-12	39.	KRS-12	44.	KRW-4	83.	KRD-4	57.	.....	....
		440–550	2	30	KRG-13	43.	KRS-13	48.	KRW-6	87.	KRD-6	61.	.....	....
	I	208–220	5	None	KSG-38	$ 36.	KSS-38	$ 41.	KSW-18	$ 80.	KSD-18	$ 54.	KSE-18	$ 84.
		440–550	7½	None	KSG-38	36.	KSS-38	41.	KSW-18	80.	KSD-18	54.	KSE-18	84.
		208–220	3	30	KSG-39	$ 41.	KSS-39	$ 46.	KSW-20	$ 85.	KSD-20	$ 59.	.....	....
		208–220	5	60	KSG-40	44.	KSS-40	49.	KSW-22	88.	KSD-22	62.	.....	....
		440–550	7½	30	KSG-41	45.	KSS-41	50.	KSW-24	89.	KSD-24	63.	.....	....
	II	208–220	15	None	KTG-21	$ 63.	KTS-21	$ 70.	KTW-2	$131.	KTD-2	$ 86.	KTE-2	$147.
		440–550	25	None	KTG-21	63.	KTS-21	70.	KTW-2	131.	KTD-2	86.	KTE-2	147.
			7½	60	KTG-22	$ 70.	KTS-22	$ 77.	KTW-6	$138.	KTD-6	$ 93.	.....	....
		208–220	★15	100	KTG-23	74.	KTS-23	81.	KTW-8	142.	KTD-8	97.	.....	....
			15	60	KTG-24	$ 74.	KTS-24	$ 81.	KTW-12	$142.	KTD-12	$ 97.	.....	....
		440–550	25	100	KTG-25	79.	KTS-25	86.	KTW-14	147.	KTD-14	$102.	.....	....
	III	208–220	30	None	KUG-2	$101.	KUS-2	$111.	KUW-2	$219.	KUD-2	$131.	KUE-2	$239.
		440–550	50	None	KUG-2	101.	KUS-2	111.	KUW-2	219.	KUD-2	131.	KUE-2	239.
		208–220	★30	200	KUG-4	119.	KUS-4	$129.	KUW-4	$237.	KUD-4	$149.	.....	....
		440–550	30	100	KUG-14	113.	KUS-14	123.	KUW-14	231.	KUD-14	143.	.....	....
		440–550	50	200	KUG-6	131.	KUS-6	141.	KUW-6	249.	KUD-6	161.	.....	....
	IV	208–220	50	None	KVG-2	$205.	KVS-2	$223.	KVW-2	$355.	KVD-2	$299.	.....	....
		440–550	100	None	KVG-2	205.	KVS-2	223.	KVW-2	355.	KVD-2	299.	.....	....
		208–220	50	400	KVG-4	$264.	KVS-4	$282.	KVW-4	$414.	KVD-4	$358.	.....	....
		440–550	60	200	KVG-6	228.	KVS-6	246.	KVW-6	378.	KVD-6	322.	.....	....
		440–550	100	400	KVG-8	284.	KVS-8	302.	KVW-8	434.	KVD-8	378.	.....	....
	V	208–220	100	None	KGG-2	$435.	KGS-2	$465.	.....	....	.....	....	.....	....
		440–550	200	None	KGG-2	435.	KGS-2	465.	.....	....	.....	....	.....	....
		208–220	100	600	KGG-4	$508.	KGS-4	$538.	.....	....	.....	....	.....	....
		440–550	125	400	KGG-6	470.	KGS-6	500.	.....	....	.....	....	.....	....
		440–550	200	600	KGG-8	532.	KGS-8	562.	.....	....	.....	....	.....	....
4 Pole	O	220–550	2	None	KRG-14	$ 46.	KRS-14	$ 51.	.....	....	.....	....	.....	....
		220	2	30	KRG-15	53.	KRS-15	58.	.....	....	.....	....	.....	....
		440–550	2	30	KRG-16	58.	KRS-16	63.	.....	....	.....	....	.....	....
	I	220	5	None	KSG-42	$ 49.	KSS-42	$ 54.	.....	....	.....	....	.....	....
		440–550	7½	None	KSG-42	49.	KSS-42	54.	.....	....	.....	....	.....	....
		220	3	30	KSG-43	$ 55.	KSS-43	$ 60.	.....	....	.....	....	.....	....
		220	5	60	KSG-44	59.	KSS-44	64.	.....	....	.....	....	.....	....
		440–550	7½	30	KSG-45	60.	KSS-45	65.	.....	....	.....	....	.....	....
	II	220	15	None	KTG-26	$ 81.	KTS-26	$ 88.	.....	....	.....	....	.....	....
		440–550	25	None	KTG-26	81.	KTS-26	88.	.....	....	.....	....	.....	....
			7½	60	KTG-27	$ 90.	KTS-27	$ 97.	.....	....	.....	....	.....	....
		220	★15	100	KTG-28	96.	KTS-28	103.	.....	....	.....	....	.....	....
			15	60	KTG-29	$ 96.	KTS-29	$103.	.....	....	.....	....	.....	....
		440–550	25	100	KTG-30	103.	KTS-30	110.	.....	....	.....	....	.....	....

NOTE—Prices do not include push button stations. Prices include thermal relay units.

†Prices do not include fuses. Fuse sizes should be selected in accordance with Article 430 of the National Electric Code on the basis of actual current rating of the motor.

★This rating for standard starting duty only. Fuses not large enough for long time acceleration.

Ordering Instructions

1. Specify class number, type, horsepower, voltage, phase, cycles and full load current of motor.
2. Order thermal relays by relay number from table on a following page.
3. Order suitable push button station from table at right.
4. If special features are desired, order "Class 8538 similar to type ....." and state clearly the features required.

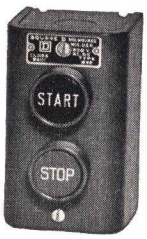
Start-Stop Push Button Stations

General Purpose—Standard Duty—Class 9001-B30	$2.50
General Purpose—Heavy Duty Class 9001-GA21	7.50
Water-tight and Dust-tight—Standard Duty—Class 9001-BW40	8.75
Water-tight and Dust-tight—Heavy Duty—Class 9001-GD-21	15.00
Class II, Group G—Heavy Duty—Class 9001, Type GE-21	15.00

SQUARE D PUSH BUTTON CONTROL STATIONS—CLASS 9001

0-600 VOLTS A.C. ***0-600 VOLTS D.C.**

No. of Buttons	Nameplate Marking	Surface Mounting General Purpose Enclosure NEMA Type 1		Flush Mounting General Purpose NEMA Type 1B●		Water-tight and Dust-tight Enclosure NEMA Types 4 and 5		*For Hazardous Locations Class I, Group D NEMA Type 7	
		Type	Price	Type	Price	Type	Price	Type	Price
Momentary Contact—Standard Duty									
1	Start	B-32	$ 2.50	BB-1	$ 3.15	BW-46	$ 8.75	BR-14	$11.25
	Stop	B-33	2.50	BB-2	3.15	BW-47	8.75	BR-15	11.25
	Stop (lockout)	B-38	3.75	BB-3	4.40	BW-30	10.00	BR-16	12.50
2	Start-Stop	B-30	2.50	BB-4	3.15	BW-40	8.75	BR-11	13.75
	Start-Stop (lockout)	B-31	3.75	BB-5	4.40	BW-41	10.00	BR-13	15.00
	Forward-Reverse ★	B-34	3.15	BB-6	3.15	BW-42	9.40	....	....
	Up-Down ★	B-35	3.15	BB-7	3.15	BW-43	9.40	....	....
	Open-Close ★	B-36	3.15	BB-8	3.15	BW-44	9.40	....	....
	On-Off ★	B-37	3.15	....	....	BW-45	9.40	....	....
3	Forward-Reverse-Stop	RK-2A	7.50	RK-3A	6.25	....	....	†RM-1A	26.00
	Up-Down-Stop	RK-2B	7.50	RK-3B	6.25	....	....	†RM-1B	26.00
	Open-Close-Stop	RK-2C	7.50	RK-3C	6.25	....	....	†RM-1C	26.00
	High-Low-Stop	RK-2D	7.50	RK-3D	6.25	....	....	†FM-1	26.00
Momentary Contact—Heavy Duty									
1	Start	GA-11	$ 5.00	GB-11	$ 5.00	GD-11	$13.75	GR-11	$15.00
	Stop	GA-12	5.00	GB-12	5.00	GD-12	13.75	GR-12	15.00
	Stop (lockout)	GA-13	6.25	GB-13	6.25	GD-13	15.00	GR-13	16.25
	Reset	GA-14	5.00	GB-14	5.00	GD-14	13.75	GR-14	15.00
	Jog	GA-15	5.00	GB-15	5.00	GD-15	13.75	GR-15	15.00
2	Start-Stop	GA-21	7.50	GB-21	7.50	GD-21	15.00	GR-21	18.75
	Start-Stop (lockout)	GA-26	8.75	GB-26	8.75	GD-29	16.25	GR-29	20.00
	Forward-Reverse	GA-22	7.50	GB-22	7.50	GD-22	15.00	GR-22	18.75
	Up-Down	GA-23	7.50	GB-23	7.50	GD-23	15.00	GR-23	18.75
	Open-Close	GA-24	7.50	GB-24	7.50	GD-24	15.00	GR-24	18.75
	High-Low	GA-25	7.50	GB-25	7.50	GD-25	15.00	GR-25	18.75
3	Forward-Reverse-Stop	GA-31	10.00	GB-31	10.00	GD-31	20.00	GR-31	26.00
	Forward-Reverse-Stop (lockout)	GA-35	11.25	GB-35	11.25	GD-310	21.25	GR-310	27.25
	Up-Down-Stop	GA-32	10.00	GB-32	10.00	GD-32	20.00	GR-32	26.00
	Up-Down-Stop (lockout)	GA-36	11.25	GB-36	11.25	GD-311	21.25	GR-311	27.25
	Open-Close-Stop	GA-33	10.00	GB-33	10.00	GD-33	20.00	GR-33	26.00
	Open-Close-Stop (lockout)	GA-37	11.25	GB-37	11.25	GD-37	21.25	GR-37	27.25
	High-Low-Stop	GA-34	10.00	GB-34	10.00	GD-34	20.00	GR-34	26.00
	High-Low-Stop (lockout)	GA-38	11.25	GB-38	11.25	GD-38	21.25	GR-38	27.25
	Start-Jog-Stop	GA-39	10.00	GB-39	10.00	GD-39	20.00	GR-39	26.00
Maintained Contact—Standard Duty									
2	Start-Stop	C-20A	$ 3.75	CB-1	$ 4.40	CW-5	$10.00	‡BR-12	$13.75
	On-Off	C-20B	3.75	CB-2	4.40	CW-6	10.00	....	....
	Manual-Automatic	C-20C	3.75	CB-3	4.40	CW-7	10.00	....	....
Momentary Contact—Standard Duty—With Brass Flush Plate and Pull Box									
2	Start-Stop	....	....	BF-13	$ 5.00	....	....	....	....
	Start-Stop (110 V. pilot light)	....	....	BF-14	13.75	....	....	....	....
	Start-Stop (220 V. pilot light)	....	....	BF-15	13.75	....	....	....	....



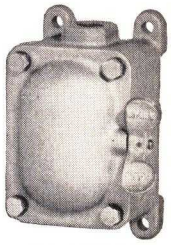
Type B-30



Type B-38



Type BW-40


Type BR-11



Type RK-2A



Type C-20A



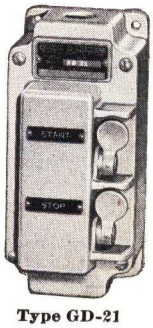
Type GR-21



Type GB-33



Type GA-31



Type GD-21

●NOTE—Prices for flush mounting stations do not include pull boxes except in the case of Type BF stations.

*Both circuits normally open. †Oil immersed. ‡250 volts maximum, A.C. or D.C.

*Type BR, RM, FM stations are limited to 250 Volts D.C.

Ordering Instructions—Order control station by complete class and type number.

Four to eight unit stations are also available with button selector switches and pilot lights. Prices on application.

SQUARE D PRESSURE SWITCHES

FOR WATER PUMPS

FOR DEEP WELL PUMPS



Heavy-duty, 2 H.P., 110 volts. Pressure limit 250 lb., differential 10 to 45 lb. Pressure connections ¼" I.P.T.—⅛" or ⅜" available. Adjustable setting—usually on at 20 lb., off at 40 lb.

Approximate dimensions—3¾x5⅜x7 inches. Net weight, 4 lb.

Also available with three poles.

Class **9013** 2-Pole Pressure Switch.....each **$9.25**

FOR SHALLOW AND DEEP WELL PUMPS



Intermediate sizes, 1 H.P., 110 volts. Pressure limit 80 lb., differential 10 to 40 lb. Pressure connection ¼" I.P.T.; ⅛" or ⅜" available. Adjustable setting — usually on at 20 lb., off at 40 lb.

Approximate dimensions, 3¼x3¾x5¼ inches. Net weight, 2 lb.

Class **9213** 2-Pole Pressure Switch.....each **$6.00**

SHALLOW WELL — SMALL MOTORS

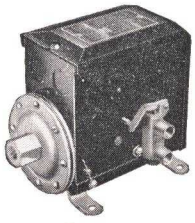


Rated ½ H.P., 110 volts. Pressure limit 60 lb., differential 15 lb. to 30 lb. Pressure connection ¼" I.P.T.; ⅛" or ⅜" available. Adjustable setting — usually on at 20 lb., off at 40 lb. Size, 2⅛x3⅛x3⅞ inches. Net weight, 1⅛ lb.

Class **9044** 2-Pole Pressure Switch.....each **$4.80**

FOR AIR COMPRESSORS

HEAVY DUTY — WITH OR WITHOUT RELEASE VALVE



Rated 2 H.P., 110 volts. Pressure limit 225 lb., differential 10 lb. to 45 lb. Pressure connection ¼" I.P.T.; ⅛" or ⅜" available. Adjustable setting—usually on at 125 lb., off at 150 lb. Approximate dimensions, 3¾x5⅜x7 inches. Net weight, 4 lb.

Also available with three poles.

Class **9013** 2-Pole Pressure Switch.....each **$9.25**
Class **9049-W1** Release Valve for above..... **2.50**

INTERMEDIATE DUTY — WITH OR WITHOUT VALVE



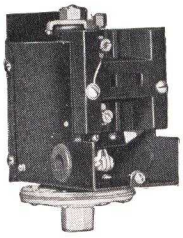
Rated 1½ H.P., 110 volts. Pressure limit 200 lb., differential 15 to 40 lb. Pressure connection ¼" I.P.T.; ⅛" or ⅜" available. Adjustable setting — usually on at 125 lb., off at 150 lb. Approximate dimensions, 3½x3¾x5¼ inches. Net weight, 2¼ lb.

Class **9213** 2-Pole Pressure Switch, With Valve .....each **$9.15**
Class **9213-AH** 2-Pole Pressure Switch, Without Valve .....each **6.65**

SQUARE D PRESSURE SWITCHES

FOR AIR COMPRESSORS

PRESSURE CUTOUT SWITCH



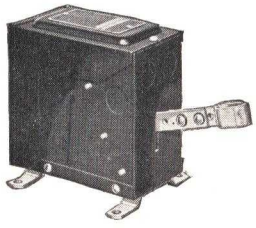
For magnetic type gasoline engines. Adjustable setting — can be calibrated in the field to meet varying operating conditions.

Approximate dimensions, 3¾x5⅜x7 inches. Pressure connection ¼" I.P.T.; ⅛" or ⅜" can be furnished if specified. Net weight, 4 pounds.

Class **9017** Pressure Switch.....each **$9.25**

FOR GENERAL DUTY

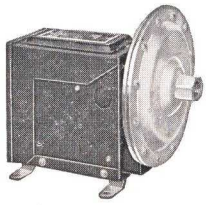
LIQUID LEVEL CONTROL FLOAT SWITCH



For sump or open tank, 2 H.P., 110 volts. Approximate dimensions, 3¾x4x5⅜ inches. Net weight, 3¼ lb. Accessories consisting of 7-inch float, 5-ft. rod and stops can be furnished. Also available with three poles.

Class **9036** 2-Pole Float Switch.....each **$9.25**

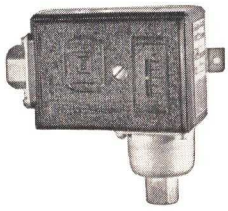
VACUUM SWITCH — GENERAL DUTY



Rated 2 H.P., 110 volts. 2-pole. Vacuum limit 25" mercury; differential 4" to 12" mercury. Adjustable setting. Approximate dimensions 6x7x8 inches. Net weight, 8 lb.

Class **9016** Vacuum Switch.....each **$17.40**

PRESSURE REGULATOR—CLOSE CONTROL



Close control. 1 H.P., 110 volts. Single-pole. Pressure limit 200 lb.; differential 1 lb. to 35 lb. Vacuum limit 30" of mercury, differential 2" to 16" of mercury. Adjustable setting—specify approximate working range. Size, 2⅛x4x4¾ inches. Net weight, 1½ pounds.

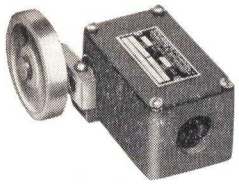
Class **9012** Regulator.....each **$9.50**

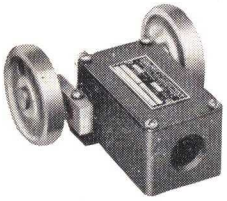
Electrical Ratings

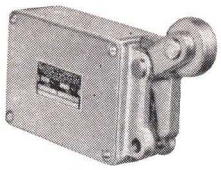
Class No. and Type	Single Phase A.C. 110 V.	Single Phase A.C. 220 V.	Polyphase A.C. 220 V.	Polyphase A.C. 440 V.	Polyphase A.C. 550 V.	Direct Current 32 V.	Direct Current 115 V.	Direct Current 230 V.
9013	2	3	5	5	5	½	1	1
9213	1	2	3	1	1	¼	½	½
9044	½	1	2	--	--	¼	¼	¼
9016	2	3	5	5	5	½	1	1
9036	2	3	5	5	5	½	1	1
9012	1	1	--	--	--	----	½	½

SQUARE D LIMIT SWITCHES — CLASS 9007

STANDARD DUTY LIMIT SWITCHES — SLOW MAKE AND BREAK


Type LG-6


Type LG-1


Type LF-20

Limit switches are generally used as pilot switches in the control circuits of magnetic starters, either for normal operation or as emergency devices, to govern the starting, stopping and reversing of electric motors.

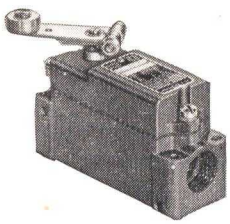
The slow make and break operation typical of the type LG limit switch is suitable for many types of general use.

SLOW MAKE AND BREAK — ROLLER OPERATED

600 VOLTS A.C. AND D.C.

Number of Rollers	Position of Rollers		Arrangement of Contacts	General Purpose Enclosure NEMA Type I	
				Type	Price
Single Roller	Off Center	Right Hand	Normally Closed	LG-5	$ 8.25
		Right Hand	Normally Open	LG-11	8.25
		Left Hand	Normally Closed	LG-6	8.25
		Left Hand	Normally Open	LG-12	8.25
	At Center	Right Hand	Normally Closed	LG-7	$ 8.25
		Right Hand	Normally Open	LG-9	8.25
		Left Hand	Normally Closed	LG-8	8.25
		Left Hand	Normally Open	LG-10	8.25
Double Roller	Off Center	.....	Normally Closed	LG-1	$11.00
		.....	Normally Open	LG-4	11.00
	At Center	.....	Normally Closed	LG-2	$11.00
		.....	Normally Open	LG-3	11.00
Single Roller	See Picture		Normally Closed	LF-20	$ 8.25
			Normally Open	LF-21	8.25

SMALL PRECISION LIMIT SWITCHES


Type AW12-B1


Type AF-22

Type A, small, precision limit switches are specifically designed for modern machine tools, to govern starting, stopping, or reversing of electric motors and for use as a "built-in" contact mechanism on other types of applications. The Type A switches, available with various lengths of roller arms or for push-rod operation, have a highly accurate, precision snap action, make and break mechanism which is capable of withstanding severe service without losing its accuracy or reliability of performance.

The Class 9007 Basic Snap Switch with special operators are designed as compact, inexpensive devices to govern control of electric motors or solenoid loads, where a protective enclosure against dust, oil, or water is unnecessary.

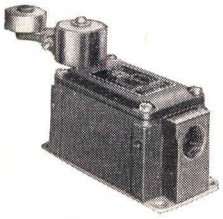
QUICK MAKE AND BREAK

OIL-TIGHT ENCLOSURE — SPRING RETURN **0-600 VOLTS A.C. AND D.C.**

Description	Roller	Length of Arm	Surface Mounting		Flush Mounting	
			Type	Price	Type	Price
Roller Arm Operated	Plain 5/8" Dia. 1/4" Wide	7/8"	AW12-A1	$8.80	AF12-A1	$8.25
		1 3/8"	AW12-B1	8.25	AF12-B1	7.70
		2"	AW12-C1	8.80	AF12-C1	8.25
		2 1/2"	AW12-D1	8.80	AF12-D1	8.25
		3"	AW12-E1	8.80	AF12-E1	8.25
	Plain 5/8" Dia. 5/8" Wide	7/8"	AW12-A2	$8.80	AF12-A2	$8.25
		1 3/8"	AW12-B2	8.80	AF12-B2	8.25
		2"	AW12-C2	8.80	AF12-C2	8.25
		2 1/2"	AW12-D2	8.80	AF12-D2	8.25
		3"	AW12-E2	8.80	AF12-E2	8.25
	One Way 1 1/4" Dia. 1/4" Wide	1 3/8" Only	AW12-B3	$9.90	AF12-B3	$9.35
Push Rod Operated (One Side)	None	.....	AW-22	$8.25	AF-22	$7.70

SQUARE D LIMIT SWITCHES — CLASS 9007

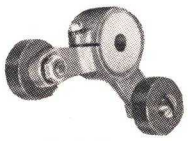
MACHINE TOOL TYPES — QUICK MAKE AND BREAK



Type M-21B



One Way Roller
Plain Hub



Double Roller
Overtravel Hub

Designed primarily for machine tool applications the Type M limit switch provides accurate tripping, quick make and break contact mechanisms. The Type M switch can be furnished with several kinds of roller arms, all adjustable through 360°. Only 8° travel is necessary for operation and 8° overtravel is provided.

0-600 VOLTS — **QUICK MAKE AND QUICK BREAK**

Arrangement of Contacts	Type of Operating Arm	Dust-tight and Oil-tight Enclosure NEMA Type V			
		With Solid Backplate, Conduit Opening in End		With Hole in Backplate, Plug in Conduit Opening, Gasket for Back	
		Type	Price	Type	Price
Single Pole Double Throw	Without Operating Arm	M11	$ 8.95	M21	$ 9.65
	Single Roller, Plain Hub	M11A	11.00	M21A	11.70
	Single Roller, Overtravel Hub	M11B	11.70	M21B	12.40
	One Way Roller, Plain Hub	M11C	12.40	M21C	13.10
	One Way Roller, Overtravel Hub	M11D	13.10	M21D	13.75
	Double Roller, Overtravel Hub	M11F	14.45	M21F	15.15
	Double Roller, Overtravel Hub, One Way Roller On One Side	M11G	15.85	M21G	16.50
	Double Roller, Overtravel Hub, One Way Rollers Both Sides	M11H	17.20	M21H	17.90
Three Point Double Throw	Without Operating Arm	M12	$10.35	M22	$11.00
	Single Roller, Plain Hub	M21A	12.40	M22A	13.10
	Single Roller, Overtravel Hub	M12B	13.10	M22B	13.75
	One Way Roller, Plain Hub	M12C	13.75	M22C	14.45
	One Way Roller, Overtravel Hub	M12D	14.45	M22D	15.15
	Double Roller, Overtravel Hub	M12F	15.85	M22F	16.50
	Double Roller, Overtravel Hub, One Way Roller On One Side	M12G	17.20	M22G	17.90
	Double Roller, Overtravel Hub, One Way Rollers Both Sides	M12H	18.60	M22H	19.25

CUTLER-HAMMER SWITCH AND STARTER DATA

FOR STANDARD SQUIRREL CAGE MOTORS

H. P.	Nema. Size	Min. Wire Size ***	Con-duit	Fusible Disconnect Switch		Switch Fuse Size	Motor Starter		Full Load Amps.	Motor Starter			Full Load Amps.	Horse Power
							Manual			Magnetic				
				Type C Cat. No.	Type D Cat. No.		Cat. No.	Heater Coil		P.B. Type*	Reset Type**	Heater Coil		
										One Heater Coil				
115 Volts Single Phase — 60 Cycles														
⅛				4131H201	4141H201	15		9102H15	2.9			9104H1357	2.9	⅛
⅙				H201	H201	15		H16	3.3			H1359	3.3	⅙
¼				H201	H201	15		H19	4.3			H1362	4.3	¼
⅓	0	14	½	H201	H201	20	9101H60	H20	5.1	9584H276	9584H270	H1364	5.1	⅓
½				H201	H201	25		H24	7.1			H1368	7.1	½
¾				H201	H201	30		H27	10.0			H1372	10.0	¾
1		12	½	H202	4143H202	40		H30	12.3			H1375	12.8	1
1½	1	10	¾	H202	4143H202	60	9115H58	9104H1375	17.0	9584H310	9584H290	H1376	17.0	1½
2	1½	8	¾	H203	4143H203	70			21.7	H370	H350	H1379	21.7	2
230 Volts Single Phase — 60 Cycles														
⅛						15		9102H 8	1.4			9104H1350	1.4	⅛
⅙						15		H 9	1.6			H1351	1.6	⅙
¼						15		H13	2.3			H1355	2.3	¼
⅓	0	14	½	4131H201	4143H201	15	9101H60	H15	2.8	9584H277	9584H271	H1357	2.8	⅓
½						15		H17	3.5			H1360	3.5	½
¾						20		H20	5.1			H1364	5.1	¾
1						25		H22	5.8			H1365	5.8	1
1½				H201	H201	30	9115H35	H1369	8.8	9584H277	9584H271	H1370	8.8	1½
2	1	14	½	H202	H202	35	9115H58	H1370	10.5	9584H311	9584H291	H1371	10.5	2
3		10	¾	H202		60		H1375	16.5			H1375	16.0	3
5	1½	8	¾	H203	H203	80			25.5	9584H371	9584H351	H1381	25.5	5

Horse Power	Nema. Size	Min. Wire Size	Conduit	Fusible Disconnect Switch		Switch Fuse Size	Motor Starter				Full Load Amps.	Horse Power
							Manual	Magnetic				
				Type C Cat. No.	Type A Cat. No.		Cat. No.	Push Button Type*	Reset Type**	Heater Coil		
220 Volt Three Phase — 60 Cycles												
½						15				9586H1352	2.1	½
¾						15				H1355	2.3	¾
1	0	14	½	4131H301	4101H301	15	9115H36	9586H1269	9586H1245	H1358	3.1	1
1½						15				H1362	4.3	1½
2						20				H1365	5.8	2
3	1	14	½	4131H301	4101H301	30	9115H59	9586H1673	9586H1685	H1369	8.3	3
5		12		H302	4101H302	45				H1374	13.2	5
7½		10	¾	H302	4101H302	60				H1377	19.3	7½
10	2	8	1	H303	H303	80		9586H2505	9586H2492	H1380	25.2	10
15		6	1¼	H304	H303	125				H1385	38.1	15
20		4	1¼			175				H232	50.5	20
25	3	2	1½	4131H304	4101H304	200		9586H3707	9586H296	H234	62.7	25
30		1	1½			225				H235	72.8	30
40		3/0	2	4131H305	4101H305	300			9586H100	H59	98	40
50	4	4/0	2½			400				H66	121	50
440 Volt Three Phase — 60 Cycles												
½						15				9586H1344	0.8	½
¾						15				H1348	1.2	¾
1	0	14	½	4131H311	4101H311	15	9115H36	9586H1270	9586H1246	H1351	1.5	1
1½						15				H1354	2.1	1½
2						15				H1357	2.9	2
3						15				H1362	4.1	3
5	1	14	½	4131H311	4101H311	25	9115H59	9586H1674	9586H1686	H1367	6.6	5
7½						30				H1370	9.7	7½
10		12	½	4131H312	4101H312	40				H1372	12.6	10
15	2	10	¾	H312	H312	60		9586H2506	9586H2493	H1377	19.1	15
20		8	1	H313	H313	80				H1380	25.3	20
25		6	1¼	H313	H313	100				H1382	31.3	25
30		6	1¼	H314	H314	125				H3371	36.4	30
40	3	3	1¼	H314	H314	150		9586H3708	9586H297	H232	49	40
50		3	1½	H314	H314	200				H234	60.5	50
75	4	2/0	2		4101H315	300			9586H101	H58	89	75
100		4/0	2½			400				H66	116	100

*P.B. Type—Pushbutton built into cover of starter.

**Reset Type—Use surface type 10250H56 push button station.

***Minimum size wire in raceway or cable.

CUTLER-HAMMER MOTOR CONTROL

SELECTING THE CONTROLLER

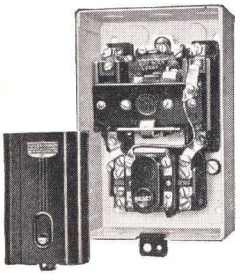
Manual Starters are satisfactory for most applications which do not require frequent starting and stopping and where the starter can be mounted near the operator without requiring long motor leads. Continuously operating equipment can usually use manual control.

Automatic Control should be used where the starter is operated frequently and where the motor is located at a distance from the operator. The remote control feature allows mounting the starter near the motor with only small control wires run to the pushbutton station or other master switch which reduces wiring when installing. The pushbutton, or other starting device, can be mounted at the operator's finger tips so as to be readily accessible.

CUTLER-HAMMER A.C. MAGNETIC STARTERS

BULLETIN 9584 — Across-the-Line Type

For Single Phase Internal Start Motors 60, 50 and 25 Cycles



Bulletin 9584—Size 1

Contact mechanism is twin-break with heavy vertical contacts of fine (99⁹⁄₁₀%) silver. Strong, quick-acting operating magnet. C-H eutectic thermal overload protection, disconnects motor only when danger-point is reached. Remote control by push-button, pressure switch or float switch. Under voltage protection or release. Furnished with three types of cover control.

Nema Type 1 General Purpose Enclosure

Single Voltage Coil

Starter Size	Cover Control	*Heater Coils	Max. H.P. 110 Volts	220 Volts	440-550 Volts	Price Each
0	Reset Only	1	1	1½	1½	$15.00
0	Start-Stop-Reset	1	1	1½	1½	17.50
0	3-Pos. Pilot Sw.	1	1	1½	1½	17.50
1	Reset Only	1	1½	3	5	17.50
1	Start-Stop-Reset	1	1½	3	5	20.00
1	3-Pos. Pilot Sw.	1	1½	3	5	20.00
1½	Reset Only	1	3	5	5	22.50
1½	Start-Stop-Reset	1	3	5	5	25.00
1½	3-Pos. Pilot Sw.	1	3	5	5	25.00
2	Reset Only	2	3	7½	10	38.00
3	Reset Only	2	7½	15	25	63.00

With Nema Type 5 Dust-Tight or Nema Type 4, Water-Tight Case

Single Voltage Coil

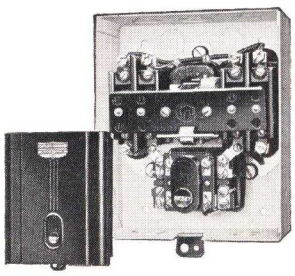
0	Start-Stop-Reset	1	1	1½	1½	40.00
1	Start-Stop-Reset	1	1½	3	5	43.00
1½	Start-Stop-Reset	1	3	5	5	49.00

*Prices include Heater Coils, but do not include separate Pushbutton Station.

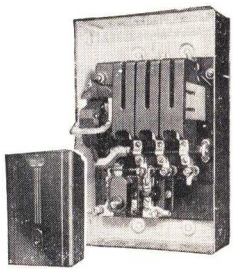
CUTLER-HAMMER A.C. MAGNETIC STARTERS

BULLETIN 9586 — Across-the-Line Type

For Polyphase Squirrel-Cage Motors 60, 50 and 25 Cycles



Bulletin 9586 Size 1



Bulletin 9586 Size 2

Size	Poles	Max. H.P. 110V.	208-220V.	440-550V.	NEMA Type 1 Exchange Start Stop Reset	Start Reset Only	3-Pos. Pilot Sw.
0	3	1½	2	2	$20.00	$17.50	$20.00
1	3	3	5	7½	22.50	20.00	22.50
2	3	7½	15	25	43.00	38.00	43.00
3	3	15	30	50	70.50	63.00	70.50
4	3	25	50	100	147.50	140.00	147.50
5	3	....	100	200	.....	283.00	.....
6	3	....	200	400	.....	834.00	.....
7	3	....	400	800	.....	991.00	.....
0	4	1½	2	2	23.75	21.25	23.75
1	4	3	5	7½	26.25	23.75	26.25
2	4	7½	15	25	50.00	45.00	50.00
3	4	15	30	50	83.50	76.00	83.50
4	4	25	50	100	.....	184.00	.....
5	4	....	100	200	.....	361.00	.....

Size	Poles	Max. H.P. 110V.	208-220V.	440-550V.	NEMA Type 5 (Dust-Tight) Start Stop Reset	NEMA Type 5 (Dust-Tight) Reset Only	NEMA Type 4 (Water-Tight) Start Stop Reset	NEMA Type 4 (Water-Tight) Reset Only
0	3	1½	2	2	$43.	$34.	$43.	$34.
1	3	3	5	7½	45.	36.	45.	36.
2	3	7½	15	25	68.	58.	81.	71.
3	3	15	30	50	96.	86.	119.	109.
4	3	25	50	100	.....	179.	.....	219.
5	3	....	100	200	.....	374.	.....	374.
0	4	1½	2	2	48.	39.	48.	39.
1	4	3	5	7½	50.	41.	50.	41.
2	4	7½	15	25	81.	71.	103.	93.
3	4	15	30	50	123.	113.	145.	135.
4	4	25	50	100	.....	236.	.....	.....

Size	Poles	Max. H.P. 110V.	208-220V.	440-550V.	NEMA Type 9 (Class 2-D) Start Stop Reset	NEMA Type 9 (Class 2-D) Reset Only	NEMA Type 7 (Class I-D) Start Stop Reset	NEMA Type 7 (Class I-D) Reset Only
0	3	1½	2	2	$48.	$34.	.....	.....
1	3	3	5	7½	50.	36.	$80.	$66.
2	3	7½	15	25	101.	86.	.....	119.
3	3	15	30	50	.....	129.	.....	169.
4	3	25	50	100	.....	253.	.....	276.
0	4	1½	2	2	53.	39.	.....	.....
1	4	3	5	7½	55.	41.	84.	70.
2	4	7½	15	25	123.	108.	.....	139.
3	4	15	30	50	.....	155.	.....	203.

Also available with oil immersed enclosure. Prices on application.

Bulletin 10250 Pushbutton Stations—Sizes 1 to 4 inclusive—Use Standard Duty—All Others—Use Heavy Duty.

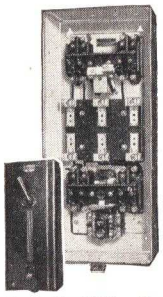
Optional Features — (1) For omission of heater coils, all sizes, deduct $1.20. (2) NEMA 4 and 5 Enclosures can be supplied in cadmium plated finish — no extra charge.

When ordering, give starter size, voltage, cycles, actual ampere rating of motor, type of enclosure and type of cover control.

CUTLER-HAMMER
A.C. MAGNETIC STARTERS

BULLETIN 9589 — Across-the-Line Type

With Motor Circuit Switch
60, 50 and 25 Cycles



Bulletin 9589—Size 1

Combination of Bulletin 9586 starter with thermal overload protection and a quick make and break, front-operated, motor circuit switch. Saves wiring between switch and control. Mechanical cover interlock. Electrical interlock between switch and starter opens main line contactor before disconnect switch.

With Nema Type 1 General Purpose Enclosure

Starter Size	Poles	Maximum H.P. Polyphase 110V	220V	440-550V	Single Phase 110V	220V	Price Each Start-Stop	Reset
0*	3	1½	2	2	1	1½	$36.50	$34.
0†	3	1½	2	..	1	1½	41.50	39.
0§	3	.....	..	2	.....	.....	45.50	43.
1*	3	3	5	7½	1½	3	38.50	36.
1†	3	1½	3	.....	1	2	43.50	41.
1‡	3	3	5	.....	1½	3	46.50	44.
1§	3	.....	..	7½	.....	..	47.50	45.
1*	4	.....	5	7½	.....	..	51.50	49.
1†	4	.....	3	.....	.....	..	57.50	55.
1‡	4	.....	5	.....	.....	..	61.50	59.
1§	4	.....	..	7½	.....	..	62.50	60.
2*	3	7½	15	25	3	7½	68.00	63.
2‡	3	3	7½	....	2	5	75.00	70.
2¶	3	5	▲10	....	3	7½	79.00	74.
2#	3	7½	15	....	.....	.....	94.00	89.
2°	3	.....	....	15	.....	.....	79.00	74.
2●	3	.....	....	25	.....	.....	84.00	79.

With Nema Type 5 Dust-tight Enclosure

0*	3	1½	2	2	1	1½	61.	52.
0†	3	1½	2	..	1	1½	66.	57.
0§	3	.....	..	2	.....	.....	70.	61.
1*	3	3	5	7½	1½	3	63.	54.
1†	3	1½	3	.....	1	2	68.	59.
1‡	3	3	5	.....	1½	.....	71.	62.
1§	3	.....	..	7½	.....	.....	72.	63.
1*	4	.....	5	7½	.....	.....	76.	67.
1†	4	.....	3	.....	.....	.....	82.	73.
1‡	4	.....	5	.....	.....	.....	86.	77.
1§	4	.....	..	7½	.....	.....	87.	78.
2*	3	7½	15	25	3	7½	96.	86.
2‡	3	3	7½	.....	2	5	103.	93.
2¶	3	5	▲10	.....	3	7½	107.	97.
2#	3	7½	15	.....	.....	.....	122.	112.
2°	3	.....	.....	15	.....	.....	107.	97.
2●	3	.....	.....	25	3	.....	112.	102.

Prices include heater coil, but no pushbutton station.

*Non-fusible. †Fuse clip—30 amp., 250 V. ‡Fuse clip—60 amp., 250 V. §Fuse clip—30 amp., 600 V. ¶Fuse clip—100 amp., 250 V. #Fuse clip—200 amp., 250 V. °Fuse clip—60 amp., 600 V. ●Fuse clip—100 amp., 600 V. ▲Can be rated 15 H.P. for light starting duty.

CUTLER-HAMMER
A.C. MAGNETIC STARTERS

BULLETIN 9591 — Across-the-Line Type

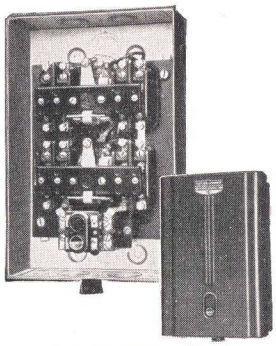
With Circuit Breaker
60, 50 and 25 Cycles

Size	Maximum Ratings Polyphase Volts	HP.	Single Phase Volts	HP.	NEMA 1 General Purpose Encl. Reset Only	NEMA 5 Dust-Tight Encl. Reset Only
	110	1½	110	1	$45.00	$63.00
0	220	2	220	1½	45.00	63.00
	440–550	2	.....	.....	54.00	72.00
	110	3	110	1½	48.00	66.00
1	220	5	220	3	48.00	66.00
	440–550	7½	.....	.....	57.00	75.00
	220	10	220	5	74.00	97.00
2	220	15	220	7½	91.00	114.00
	440	25	.....	.....	88.00	111.00
	550	25	.....	.....	88.00	111.00
	220	*25	220	10	125.00	155.00
3	220	30	220	15	195.00	225.00
	440–550	50	.....	.....	138.00	168.00
	220	50	.....	.....	288.00	382.00
4	440–550	100	.....	.....	305.00	399.00

*This starter is suitable for 30 hp. 220 volt motors on light starting duty and in certain localities where a 100-ampere breaker is permissible for this rating.

BULLETIN 9595 — REVERSING

Across-the-Line Type—With Overload
60, 50 and 25 Cycles



Bulletin 9595—Size 1

Reversing is accomplished directly by the contactors from suitable 10250 pushbutton switches. The starter consists of two magnetic contactors, mechanically interlocked, to prevent both switches from closing at the same time. Larger sizes also are electrically interlocked. Pilot circuit limit switch protection in one or both directions is a standard feature of design.

With Nema Type 1 General Purpose Enclosure

Starter Size	Poles	Max. HP. Polyphase 110V	220V	440-550V	Max. HP. Singlephase 110V	220-550V	Price Each
00	2	.....	....	.....	½	¾	$30.00
00	3	.....	1	1	.....	.....	33.00
0	2	.....	....	.....	1	1½	34.00
0	3	1½	2	2	.....	.....	38.00
0	4	1½	2	2	.....	.....	45.00
1	2	.....	....	.....	1½	2	40.00
1	3	3	5	7½	.....	.....	44.00
1	4	3	5	7½	.....	.....	51.00
2	3	7½	15	25	.....	.....	84.00
2	4	7½	15	25	.....	.....	101.00
3	3	15	30	50	.....	.....	131.00
3	4	15	30	50	.....	.....	160.00
4	3	25	50	100	.....	.....	329.00
4	4	25	50	100	.....	.....	415.00

Prices include heater coils, but no pushbutton station.

Types of Construction—Size 00—Contactors mounted side-by-side. Size 0—Contactors mounted side-by-side or one above the other (specify which type desired). Size 1—Contactors mounted one above the other. Sizes 2 and 3—Contactors mounted side-by-side or one above the other. Size 4—Contactors mounted one above the other.

Optional Features — Add for three button remote control pushbutton master switch, each $7.50. Add for hold-down two-button remote control pushbutton master switch, each $3.15.

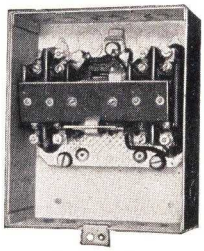
CUTLER-HAMMER A.C. MAGNETIC CONTACTORS

BULLETIN 9560

For Continuous Duty
60, 50, and 25 Cycles



Bulletin 9560 Size 0



Bulletin 9560 Size 1

C-H Contactors employ a highly-efficient magnet structure, insuring low power consumption and snappy action. 60, 50, and 25 cycles. Two-pole single-phase, three-pole and four-pole polyphase.

2 Pole — Single Phase

With Enclosing Case

Starter Size	Amps. Open	Amps. Encl.	Maximum Horsepower 110V	220V	440V	550V	Price Each
00	10	9	¾	¾	-----	-----	**$10.00**
0	15	13	1	1½	1½	1½	**12.50**
1	25	22	1½	3	5	5	**15.00**
2	50	45	3	7½	10	10	**28.75**
3	100	90	7½	15	25	25	**50.00**
4	150	135	10	25	50	50	**120.00**

Without Enclosing Case

00	10	9	¾	¾	-----	-----	**8.75**
0	15	13	1	1½	1½	1½	**11.25**
1	25	22	1½	3	5	5	**13.75**
2	50	45	3	7½	10	10	**25.00**
3	100	90	7½	15	25	25	**41.00**
4	150	135	10	25	50	50	**101.00**

3-Pole — Polyphase

With Enclosing Case

Starter Size	Amps. Open	Amps. Encl.	Maximum Horsepower 110V	220V	440V	550V	Price Each
00	10	9	½	1	1	1	**$11.25**
0	15	13	1½	2	2	2	**13.75**
1	25	22	3	5	7½	7½	**16.25**
2	50	45	7½	15	25	25	**31.00**
3	100	90	15	30	50	50	**54.00**
4	150	135	25	50	100	100	**128.00**

Without Enclosing Case

00	10	9	½	1	1	1	**10.00**
0	15	13	1½	2	2	2	**12.50**
1	25	22	3	5	7½	7½	**15.00**
2	50	45	7½	15	25	25	**27.50**
3	100	90	15	30	50	50	**45.00**
4	150	135	25	50	100	100	**109.00**

4-Pole — Polyphase

With Enclosing Case

Starter Size	Amps. Open	Amps. Encl.	Maximum Horsepower 110V	220V	440V	550V	Price Each
0	15	13	1½	2	2	2	**$17.50**
1	25	22	3	5	7½	7½	**20.00**
2	50	45	7½	15	25	25	**40.00**
3	100	90	15	30	50	50	**66.00**

Without Enclosing Case

0	15	13	1½	2	2	2	**16.25**
1	25	22	3	5	7½	7½	**18.75**
2	50	45	7½	15	25	25	**36.00**
3	100	90	15	30	50	50	**58.00**

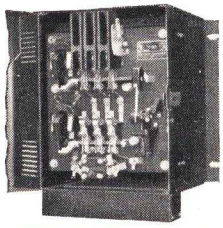
Note—When ordering, give contactor size, voltage, cycles and type of enclosure.

Price does not include pushbutton station.

CUTLER-HAMMER A.C. AUTOMATIC STARTERS

BULLETIN 9605 — PRIMARY RESISTOR TYPE

Time Limit Acceleration
3-Phase — 60, 50, and 25 Cycles



Bulletin 9605—Size 2

Bulletin 9605 is used with squirrel-cage motors for reduced voltage starting. Primary resistor gives 65 per cent of line voltage on starting. Time limit acceleration through C-H Mercury Timer insures trouble-free constant timing of accelerating period. C-H eutectic thermal overload protection.

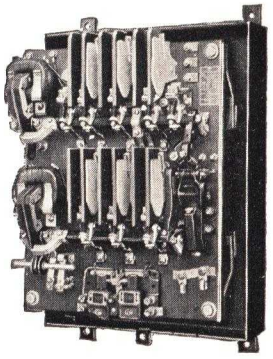
Size	H.P.	220 Volts Price	220 Volts Lbs. Boxed	440 Volts Price	440 Volts Lbs. Boxed	550 Volts Price	550 Volts Lbs. Boxed
2	2–3	**$120**	115	**$120**	120	**$120**	120
2	5	**120**	115	**120**	120	**120**	120
2	7½	**179**	115	**120**	120	**120**	120
2	10	**188**	140	**188**	145	**188**	120
2	15	**195**	140	**195**	175	**195**	145
3	20	**253**	170	**211**	200	**211**	200
3	25	**262**	200	**220**	200	**220**	220
3	30	**270**	200	**270**	225	**270**	225

Note—When ordering, give horsepower, voltage, cycles, and actual ampere rating of motor.

BULLETIN 9621—AUTO-TRANSFORMER TYPE

For Starting Squirrel-Cage Motors

For squirrel-cage motors, particularly where starting load varies over wide range. Constant accelerating time through C-H Mercury Timer. C-H eutectic thermal overload protection. Relay reset from outside of case. Both contacts mechanically interlocked. Connected at factory to give 65 per cent of line voltage on starting. An 80 per cent voltage tap also is provided.



Bulletin 9621

H.P. Poly-Phase	220 Volts 50-60 Cycle Price	220 Volts 25 Cycle Price	Lbs. Boxed	440-550 Volts 50-60 Cycle Price	440-550 Volts 25 Cycle Price	Lbs. Boxed
5	**$237.00**	**$237.00**	230	**$237.00**	**$237.00**	230
7½	**237.00**	**237.00**	230	**237.00**	**237.00**	230
10	**237.00**	**237.00**	230	**237.00**	**237.00**	230
15	**237.00**	**259.00**	230	**237.00**	**259.00**	230
20	**277.00**	**298.00**	235	**259.00**	**280.00**	235
25	**277.00**	**298.00**	235	**259.00**	**280.00**	235
30	**287.00**	**608.00**	600	**287.00**	**395.00**	600
40	**589.00**	**616.00**	600	**311.00**	**430.00**	600
50	**589.00**	**616.00**	600	**311.00**	**430.00**	600

Prices include Heater Coil but no Pushbutton Station.

When ordering give horsepower, voltage, cycles, actual ampere rating of motor, phases and wires.

CUTLER-HAMMER
A.C. MANUAL STARTERS

BULLETINS 9101, 9102, 9103 AND 9115

Across-the-Line Type



Bulletin 9101
Size 00



Bulletin 9103
Size 0 Starter



Bulletin 9115
Size 0

For Single Phase Motors

Cat. No.	Size	Max. Horsepower 110 AC	220 AC	440-550 AC	115 DC	230 DC	Poles	Heater Coils	Price Each
NEMA Type 1 General Purpose Enclosure									
*9101H60	00	1	1	.....	½	⅛	1	1	$3.15
•9102H58	00	¾	¾	.....	½	⅛	1	1	3.15
▲9103H2	0	1	1½	1½	½	¼	2	2	9.75
▲9115H35	0	1	1½	1½	½	¼	2	1	9.00
▲9115H58	1	1½	3	5	....	....	2	1	11.50
NEMA Type 5 Dust-tight, NEMA Type 4 Water-tight Cast-Iron Enclosure									
*9101H66	00	1	1	.....	½	⅛	1	1	10.50
▲9115H67	0	1	1½	1½	½	¼	2	1	23.50
▲9115H95	1	1½	3	5	....	....	2	1	29.00
NEMA Type 7, Class I—D NEMA Type 9, Class II—G									
▲9115H68	0	1	1½	1½	½	¼	2	1	30.00
▲9115H96	1	1½	3	5	....	....	2	1	35.00
Open Type									
*9101H59	00	1	1	.....	½	⅛	1	1	2.65
•9102H32	00	¾	¾	.....	½	⅛	1	1	2.65
▲9103H1	0	1	1½	1½	½	¼	2	2	9.00
▲9115H40	0	1	1½	1½	½	¼	2	1	8.25
▲9115H61	1	1½	3	5	....	....	2	1	10.50

For Polyphase Motors

NEMA Type 1 General Purpose Enclosure									
▲9115H36	0	1½	2	2	....	....	3	2	10.00
•9115H38	0	1½	2	2	....	....	3	2	10.00
▲9115H37	0	1½	2	2	....	....	4	2	15.00
•9115H39	0	1½	2	2	....	....	4	2	15.00
▲9115H59	1	3	5	7½	....	....	3	2	12.50
▲9115H60	1	3	5	7½	....	....	4	2	17.50
NEMA Type 5 Dust-tight, NEMA Type 4 Water-tight Cast-Iron Enclosure									
▲9115H69	0	1½	2	2	....	....	3	2	24.50
▲9115H71	0	1½	2	2	....	....	4	2	29.50
▲9115H98	1	3	5	7½	....	....	3	2	30.00
NEMA Type 7, Class I—D NEMA Type 9, Class II—G									
▲9115H70	0	1½	2	2	....	....	3	2	31.00
▲9115H72	0	1½	2	2	....	....	4	2	36.00
▲9115H99	1	3	5	7½	....	....	3	2	36.00
Open Type									
▲9115H41	0	1½	2	2	....	....	3	2	9.25
•9115H43	0	1½	2	2	....	....	3	2	9.25
▲9115H42	0	1½	2	2	....	....	4	2	14.25
•9115H44	0	1½	2	2	....	....	4	2	14.25
▲9115H62	1	3	5	7½	....	....	3	2	11.50
▲9115H63	1	3	5	7½	....	....	4	2	16.50

Prices include necessary heater coils. *Top or bottom line terminals. •Bottom line terminals. ▲Top line terminals.

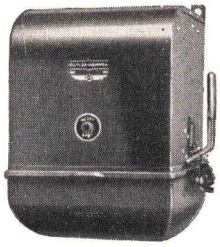
When ordering **Bul. 9101**, give actual ampere rating and type of enclosure; **Bul. 9102**—actual ampere rating; **Bul. 9103** — actual ampere rating and type of enclosure; **Bul. 9115** — horsepower, voltage, actual ampere rating, line terminals top or bottom, phases, wires and type of enclosure.

CUTLER-HAMMER
A.C. MANUAL STARTERS

BULLETIN 9141—AUTO-TRANSFORMER TYPE

For Squirrel-Cage Motors

Compensator types provide reduced voltage on starting by means of an auto transformer which automatically reduces the current taken from the line, on starting, by the amount of transformer ratio or tap. These starters should, therefore, be used where power company requirements are very strict as to inrush currents. The auto transformers give the necessary starting torque with a comparatively small value of line current. Extra taps, to obtain various starting voltages, are provided on the auto transformer.



Bulletin 9141

For use with polyphase squirrel-cage induction motors where reduced voltage starting is desired. Adjustable starting voltage taps. C-H eutectic thermal overload protection during both starting and running. Standard C-H drum-type contacts, oil-immersed. Dust-tight enclosing case. May be operated as frequently as once every four minutes for one hour, the starting period not to exceed 15 seconds. Connected to give 65 per cent of line voltage on starting. An 80 per cent voltage tap also is provided. Prices include heater coils.

Three Phase or Two Phase—3-Wire†

Starter Size	H.P.	Volts	Lbs. Boxed	Prices 50-60 Cycle	25-33 Cy.
A	5–10	110	175	$141.00	$147.00
A	5–10	220	175	141.00	147.00
A	5–10	440	175	141.00	147.00
A	5–10	550	175	141.00	147.00
B	15	110	200	141.00	153.00
A	15	220	175	141.00	153.00
A	15	440	175	141.00	153.00
A	15	550	175	141.00	153.00
H	15	2200	900	*563.00	*612.00
A	20	220	175	147.00	161.00
A	20	440	175	147.00	161.00
A	20	550	175	147.00	161.00
H	20	2200	900	*563.00	*612.00
B	25	220	200	147.00	161.00
B	25	440	200	147.00	161.00
B	25	550	200	147.00	161.00
H	25	2200	900	*584.00	*612.00
B	30	220	200	153.00	277.00
B	30	440	200	153.00	277.00
B	30	550	200	153.00	277.00
H	30	2200	900	*584.00	*623.00
B	40	220	200	259.00	287.00
B	40	440	200	161.00	287.00
B	40	550	200	161.00	287.00
H	40	2200	900	*591.00	*652.00
C	50	220	325	267.00	287.00
C	50	440	325	161.00	287.00
C	50	550	325	161.00	287.00
H	50	2200	900	*591.00	*652.00

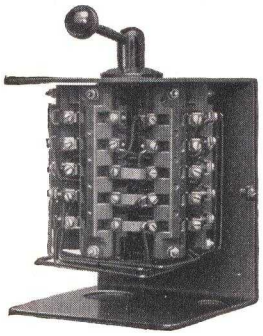
*For three phase motors only.

†Two phase, 4-wire, 50-60 cycle prices furnished on request.

Prices include heater coils.

When ordering, give horsepower, voltage, cycles, actual ampere rating of motor, phases and wires.

CUTLER-HAMMER A.C. MANUAL STARTERS



BULLETIN 9402

REVERSING AND NON-REVERSING

For Polyphase Multi-Speed Motors

Size	Max. H.P. Polyphase Constant or Variable Tongue 220 Volts	380 to 550 Volts	Constant Horsepower 220 Volts	380 to 550 Volts	Prices One Winding Recon-nected	Two Separate Windings	‡
Non-Reversing Type							
00	¾	¾	¾	¾	$12.50	$ 5.00	$25.00
0	2	2	1½	2	16.25	7.50	33.00
1	5	7½	3	5	26.25	23.75	41.00
2	15	25	10	20	41.00	44.00	71.00
One Point Reversing Type							
00	¾	¾	¾	¾	*12.50	*12.50	.....
0	2	2	1½	2	27.50	25.00	44.00
1	5	7½	3	5	36.00	34.00	56.00
2	15	25	10	20	60.00	51.00	84.00

‡Prices: 3 or 4 speeds 2 windings; 3 speeds or 3 windings; or 4 speeds 4 windings.

*Size 00 is full reversing.

Type of Interlock—Size 00 none; sizes 0, 1 and 2, A.

Add for panel mounting with standard handle, size 00 only $2.00

Tear Drop handle in place of standard radial handle ..... no charge

BULLETIN 9441 — REVERSING TYPE

Across-the-Line for Squirrel-Cage Motors

Small size, compact construction. Twin-break contacts for long life. Arc barriers between poles. Non-rusting metal parts. These are some of the outstanding features of these drum-type starters. Furnished as self-centering with radial lever, or non-self-centering with rope wheel. Made in sizes 00, 0, 1 and 2. Size 1 is cam operated to give snap-action.



Bul. 9441—Size 1

Starter Size	Maximum H.P. Rating 1 Phase 115V	230V	Polyphase 220V	380-550V	Max. Amps.	Prices Without Pilot Cir. Intl.	With Pilot Cir. Intl.
00*	¾	¾	¾	¾	10	$ 5.00	.....
0*	1	1½	2	2	15	7.50	.....
0†	1	1½	2	2	15	11.25	.....
1*	1½	3	5	7½	25	15.00	$23.75
1†	1½	3	5	7½	25	17.50	23.75
2*	3	7½	15	25	50	44.00	54.00
2†	3	7½	15	25	50	44.00	54.00

*Radial operating mechanism.

†Rope operating mechanism.

Add for panel mounting with standard handle, sizes 00 and 0 ..... $2.50

Self-centering with radial lever, all sizes ..... no charge

CUTLER-HAMMER A.C. AND D.C. ACCESSORIES

BULLETIN 10250

PUSHBUTTON MASTER STATIONS



A B C D

A — One-button, heavy-duty, general-purpose, button-operated master station.
B — Two-button; standard-duty, general-purpose.
C — Three-position pilot switch, standard-duty, lever-operated master station.
D—Two-button; heavy-duty, general-purpose; button-operated master station.

Standard-duty pushbutton stations are suitable for automatic starters rated as follows: AC up to 25 HP 110 volts; 50 HP 220 volts; 100 HP 440 or 550 volts. DC up to 15 HP 115 volts; 30 HP 230 volts; 50 HP 550 volts (except snap switches which are 230 volts maximum).

For larger size starters and for snap switches on 440 and 550 volts use heavy-duty construction.

Pushbutton master stations are available for starting, stopping, reversing and speed control.

Heavy-duty stations are "Unitized" construction — can be furnished in almost any combination of circuits, operating means, button marking, pilot lights, etc., from one to eight buttons. Information on request.

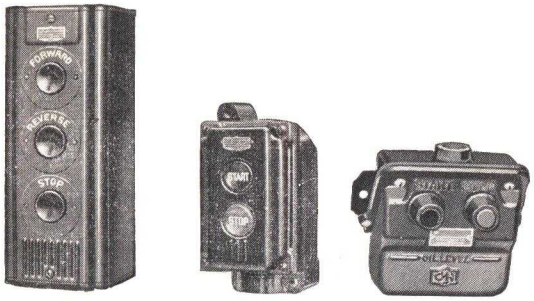
Cat. No.	Marking	Enclosure	Duty	Price Each
One-Button Master Stations				
10250—				
H184	Start	Gen. Pur.	Std.	$2.50
H1003	Start	Gen. Pur.	Hvy.	5.00
H2737	Start	*Watertight	Std.	8.75
H2734	Start	Class I-D	Std.	11.25
H119	Stop	Gen. Pur.	Std.	2.50
H1001	Stop	Gen. Pur.	Hvy.	5.00
H658	Stop	*Watertight	Std.	8.75
H2733	Stop	Class I-D	Std.	11.25
Three-Position Pilot Switches				
H289	Run-Off-Auto	Gen. Pur.	Std.	2.50
H290	As Specified	Gen. Pur.	Std.	3.15
Two-Button Master Stations				
H56	Start-Stop	Gen. Pur.	Std.	2.50
H114	As Specified	Gen. Pur.	Std.	3.15
H144	Start-Stop	Flush-Mtg.	Std.	5.00
H364	Start-Stop	*Watertight	Std.	8.75
H654	Start-Stop	Class I-D	Std.	13.75
H1043	Start-Stop	Gen. Pur.	Hvy.	7.50
H1051	Start-Stop (jog-on)	Gen. Pur.	Hvy.	8.75
H1438	Start-Stop	*Watertight	Hvy.	15.00
H1620	Start-Stop	Class I-D	Hvy.	13.75
H111	Start-Stop	†	Hvy.	13.75
H77	Forw.-Revrs.	Gen. Pur.	Std.	3.15
H172	Up-Down	Gen. Pur.	Std.	3.15
H63	Hoist-Lower	Gen. Pur.	Std.	3.15
H1047	As Specified	Gen. Pur.	Hvy.	7.50
Snap Switches				
H2164	Start-Stop	Gen. Pur.	Std.	3.15
H1116	On-Off	Gen. Pur.	Hvy.	7.50
H1115	Start-Stop	Gen. Pur.	Hvy.	7.50

*Watertight and Dust-Tight. †Class I-D—Oil-Immersed.
When ordering pushbuttons listed "As Specified" be sure to specify marking desired.

CUTLER-HAMMER
A.C. AND D.C. ACCESSORIES

BULLETIN 10250

PUSHBUTTON MASTER STATIONS



B C D

B — Three-button; heavy-duty, general-purpose, button-operated master station.
C — Two-button, standard-duty, watertight and dust-tight, lever-operated master station.
D — Two-button, heavy-duty, Class I Group D — oil-immersed, button-operated master station.

No.	Marking	Enclosure	Duty	Each
Three-Button Master Stations				
Cat. 10250—				Price
H306	Stop-Forw.-Reverse	Gen. Pur.	Std.	$7.50
H305	Stop-Hoist-Lower	Gen. Pur.	Std.	7.50
H309	As Specified	Gen. Pur.	Std.	7.50
H1131	Forw.-Rev.-Stop	Gen. Pur.	Hvy.	10.00
H1374	Forw.-Rev.-Stop (safe-on)	Gen. Pur.	Hvy.	11.25
H1136	As Specified	Gen. Pur.	Hvy.	10.00
H1475	As Specified	*	Hvy.	20.00

*Watertight-Dustight. When ordering Pushbuttons listed "As Specified" be sure to specify marking desired.

BULLETIN 10016—PRESSURE SWITCHES

For Small Pumps and Compressors



Bulletin 10016

Modern appearance, construction and performance. Quick make and quick break. Double-break, silver-to-silver contacts. C-H eutectic thermal overload protection. Pressure connection for S.A.E. fitting (adapter for ¼-inch or ⅜-inch pipe connection furnished at no charge if specified). Switch and overload mechanism removable as a unit without disturbing contact mechanism.

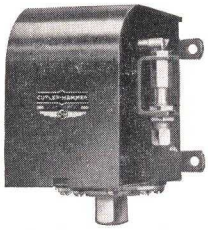
With Thermal Overload Relay—Double Pole

Cat. No.	Max. HP Ratings AC Sing. Ph. 110 V.	220 V.	DC 115 V.	230 V.	Pressure Ratings Max. Stand. Pres.	Differ. Sett'g	Max.	Min.	Price Each
10016H63	1	1	½	½	80	20-40	28	15	$6.50
Without Thermal Overload Relay—Double Pole									
10016H65	1	1	½	½	80	20-40	28	15	5.85

CUTLER-HAMMER
A.C. AND D.C. ACCESSORIES

BULLETIN 10007 PRESSURE SWITCHES

Double Pole—Without Overload



Bulletin 10007H2

For pressures above atmospheric. For small motor or pilot circuit control. For air, gas, water and other fluids not injurious to rubber diaphragm. Quick make and break. Twin-break silver contacts. Adjustable pressure settings. View shows switch with unloader for air compressor service.

Without Unloader—Maximum Pressure 100 Lbs.

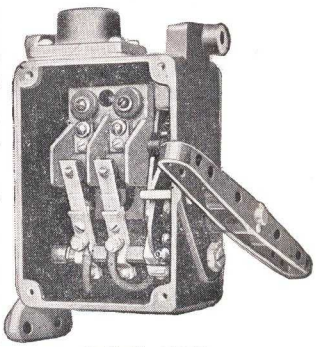
Adjustment A

Cat. No.	Maximum Horsepower DC 115 V.	230 V.	550 V.	Sg. Ph. 110 V.	220 V.	2 or 3 Phase 110 V.	220 V.	440 V.	550 V.	Price Each
10007H8-1*	1	2	¾	1½	3	2	5	3	3	$8.35
Adjustment B										
10007H8-2†	1	2	¾	1½	3	2	5	3	3	8.35
Without Unloader—Maximum Pressure 200 Lbs.										
10007H10-1‡	1	2	¾	1½	3	2	5	3	3	8.35
10007H9‡•	1	2	¾	1½	3	2	5	3	3	10.45

*Set at 30-60 pounds at factory.
†Set at 20-40 pounds at factory.
‡Set at 160-200 pounds at factory.
•With unloader for air compressor service.
When ordering specify maximum pressure, settings and whether with or without unloader.

BULLETIN 10036 FLOAT SWITCHES

Two and Four Pole



Bulletin 10036

The 2-pole switch will handle DC motors up to 3 HP 115 or 230 volts and AC single phase motors up to 2 HP 110 volts, 4 HP 220 volts and 5 HP 440 or 550 volts. The 4-pole switch will handle DC motors up to 7½ HP 550 volts (2 breaks) and standard polyphase AC motors up to 3 HP 110 volts, 5 HP 220 volts and 7½ HP 440 or 550 volts. For larger motors, use the 2-pole switch for controlling the pilot circuit of a suitable AC or DC automatic starter. When ordering specify mounting and whether 2 or 4 poles. Prices include accessories for cold water applications.

Cat. No.	Lbs. Bxd.	Price Ea. Two Pole	Cat. No.	Lbs. Bxd.	Price Ea. Four Pole
For Mounting on Inside Wall of Tank					
1003CH17	65	$36.00	10036H23	85	$49.00
For Clamping Over Edge of Tank					
10036H18	65	39.00	10036H24	85	51.00
With Floor Pedestal					
10036H19	90	43.00	10036H25	110	56.00
With Floor Bracket for Chain Operation					
10036H20	70	43.00	10036H26	90	56.00
For Mounting on Outside of Tank with Shaft Extending Through Tank Wall					
10036H21	65	51.00	10036H27	85	65.00
For Mounting on Wall and Arranged for Chain Operation					
10036H22	65	43.00	10036H28	85	56.00

CUTLER-HAMMER A.C. AND D.C. ACCESSORIES

BULLETIN 10038 SMALL FLOAT SWITCH



Bulletin 10038

Double-pole. For tanks or sump pumps, with and without thermal overload relay. Float and float rod not included.

For small fractional horsepower a-c or d-c motors operating sump or condensate pumps. Can also be used on larger motors as a pilot device. Give amp. rating of motor when ordering.

Float Switch with Thermal Overload Relay

Cat. No.	Operation	Maximum H.P. Ratings AC 1 Phase 110V.	220V.	DC 115V.	230V.	Price Each
10038H7 *	Tank	1	1	¼	....	$6.50
10038H8 †	Tank	1	1	¼	....	6.50
10038H15*	Sump	1	1	½	½	6.50
10038H16†	Sump	1	1	½	½	6.50

Without Overload Relay

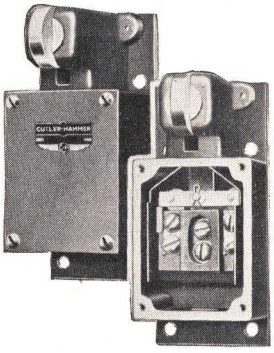
10038H11*	Tank	1	1	¼	....	5.85
10038H12†	Tank	1	1	¼	....	5.85
10038H19*	Sump	1	1	½	½	5.85
10038H20†	Sump	1	1	½	½	5.85

*Short operating lever. †Long operating lever.

Optional Features

Other special operating levers.....price on request
Special mounting other than standard horizontal .....price on request

BULLETIN 10316—SINGLE POLE LIMIT SWITCH



Bulletin 10316H3

Ideal where a small, sturdy limit device is needed. For control circuits only—110 to 550 volts AC or 115 to 230 volts DC—inrush or peak current must not exceed 20 amperes. Can be used to start, stop or reverse motor at a certain point, or as a safety switch for overtravel protection. Silver-to-silver, double-break contacts for long life and best current-carrying qualities. Designed so front cover plate and back mounting plate can be interchanged giving two mounting positions, and roller can be turned 90 degrees giving two rolling positions—perpendicular and horizontal. Contacts are designed so a normally-open switch readily can be changed to a normally-closed switch and vice-versa.

Cat. No.	Position of Contacts	Lbs. Bxd.	Price Each
10316H3	Normally Open	5	$7.50
10316H4	Normally Closed	5	7.50
10316H10	Normally Open and Normally Closed	5	7.50

When ordering Limit Switches be sure to give correct catalog number and type of contacts desired—whether normally open, normally closed or one of each.

CUTLER-HAMMER A.C. AND D.C. ACCESSORIES

BULLETIN 10316—HATCHWAY LIMIT SWITCH



Bulletin 10316

Used as a limit device to start and stop motor at a certain point, or as a safety switch for overtravel protection. Available with cast iron wheel for heavy-duty service or rubber-tired wheel for quiet operation. For control circuits up to 600 volts.

With Rubber-Tired Wheels

Cat. No.	Position of Contacts	Lbs. Bxd.	Price Each
10316H66	Two—Normally Closed	9	$15.00
10316H67	Two—Normally Open	9	15.00
10316H68	Two—One Normally Open; One Normally Closed.....	9	22.50

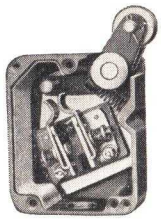
With Cast Iron Wheels

10316H69	Two—Normally Closed	9	17.50
10316H70	Two—Normally Open	9	17.50
10316H71	Two—One Normally Open; One Normally Closed.....	9	22.50

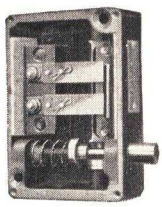
When ordering Limit Switches be sure to give correct catalog number and type of contacts desired—whether normally open, normally closed or one of each.

BULLETIN 10316—LIMIT SWITCHES

Also Used as Door Switches



Bulletin 10316 Type B



Bulletin 10316 Type A

For pilot circuit control of suitable automatic starters. Used as door switches in elevator service as well as limit switches in general service. For control circuits up to 600 volts.

Cat. No	Manner of Operation	Type	Normal Contact Position	Lbs. Bxd.	Price Each
10316H55	Pushbutton	A	Open	4	$7.50
10316H56	Pushbutton	A	Closed	4	7.50
10316H57	Roller	B	Open	4	7.50
10316H58	Roller	B	Closed	4	7.50
10316H59	Roller‡	B	Open	4	7.50
10316H60	Roller‡	B	Closed	4	7.50
10316H61	Roller*	B	Closed	4	8.75
10316H62	Roller†	B	Closed	4	8.75
10316H63	Gravity	C	Open	4	11.25

*With right-hand mounting bracket.

†With left-hand mounting bracket.

‡With long operating handle.

C-H HEATER COILS

SIMPLIFIED LISTING OF HEATER COILS FOR ACROSS-THE-LINE AND MAGNETIC CONTROL

For 3 Phase Squirrel Cage Induction Motors — 1800 RPM*



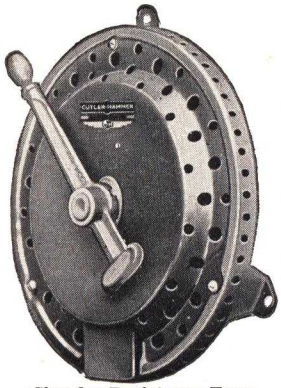
NEMA Type 1 Case

H.P.	Catalog Numbers 110 V.	220 V.	440 V.	550 V.
	Magnetic (9586)			
	9586-	**9586-**	**9586-**	**9586-**
¼	H1353	H1346	H1339	H1336
⅓	H1355	H1348	H1340	H1339
½	H1359	H1352	H1344	H1342
¾	H1363	H1355	H1348	H1345
1	H1366	H1358	H1351	H1348
1½	H1370	H1362	H1354	H1352
2	H1372	H1365	H1357	H1355
3	H1376	H1369	H1362	H1359
5	H1381	H1374	H1367	H1364
7½	H1385	H1377	H1370	H1368
10	H232	H1380	H1372	H1370
15	H235	H1385	H1377	H1374
20	H59	H232	H1380	H1377
25	H66	H234	H1382	H1380
30	.....	H235	H3371	H228
40	.....	H59	H232	H3371
50	.....	H66	H234	H232
	Manual (9115) — Push Button Operated			
¼	H1352	H1345	H1338	H1335
⅓	H1354	H1347	H1338	H1337
½	H1360	H1351	H1343	H1343
¾	H1362	H1354	H1347	H1344
1	H1365	H1357	H1349	H1347
1½	H1369	H1361	H1353	H1351
2	H1372	H1364	H1356	H1354
3	H1376	H1368	H1360	H1358
5	.....	H1374	H1366	H1363
7½	.....	.....	H1370	H1367

*Important — Heater coils indicated above are for the average 1800 R.P.M. Motor. For exactly correct coil and where the motor rating is known, information will be supplied upon request.

C-H THEATER DIMMERS

BULLETIN 11311



Circular Resistance Type

Used principally in small theaters, lodge-rooms, churches, schools. Can be mounted flat against wall, at rear of a switchboard (with hand-wheel drive from front) or in a cabinet with out-side-operated knob or with bracket for mount-ing at right angles to wall or switchboard. For con-tinuous service. Can be provided for 2 or 3-wire systems. Contacts en-closed in well-ventilated sheet steel case.

(Continued in following column)

C-H THEATER DIMMERS

BULLETIN 11311



Auto-transformer Type

Auto-transformer Type

(Will handle any number of lamps within maximum rating.)

2-Wire—120 Volts—60 Cycles AC

Max. Lamp Watts	Cat. No.	Wt. Lbs. Boxed	Price Each
	Enclosed Construction		
1000	H82	90	$119.00
4000	H83	90	140.00
	Open Construction		
1000	H84	90	108.00
4000	H85	90	129.00

Circular Resistance Type — AC or DC

Watts	2 Wire, 110 Volts Lbs. Boxed	Price Each	2 Wire, 220 Volts Lbs. Boxed	Price Each	3 Wire, 110-220V. Lbs. Boxed	Price Each
150	20	$21.00	20	$21.00	40	$42.00
200	20	21.00	20	21.00	40	42.00
250	20	21.00	20	21.00	40	42.00
360	20	21.00	20	21.00	40	42.00
400	20	21.00	20	21.00	40	42.00
500	20	21.00	20	21.00	40	42.00
550	25	21.00	25	21.00	40	42.00
660	25	21.00	25	21.00	40	42.00
750	25	33.00	25	33.00	40	42.00
900	25	33.00	25	33.00	40	42.00
1000	30	33.00	30	33.00	40	42.00
1100	17	33.00	30	33.00	50	42.00
1320	17	33.00	30	33.00	50	42.00
1650	50	45.00	50	45.00	50	66.00
1800	34	45.00	60	45.00	50	66.00
2000	60	45.00	60	45.00	60	66.00
2200	34	49.00	60	49.00	60	66.00
2450	60	49.00	60	49.00	60	66.00
2640	34	55.00	60	55.00	60	66.00
3000	90	80.00	90	80.00	100	90.00
3300	90	80.00	90	80.00	100	90.00
4000	90	80.00	90	80.00	120	90.00
5280	120	93.00	120	93.00	120	110.00

When ordering, give total wattage of all lamps to be connected to dimmer; whether two or three wire.

Can be supplied with edgewise mounting bracket and for rear board mounting. Prices on applica-tion.

How to Select C-H Theater Dimmers

(1) Determine exact voltage and type of supply circuit. (2) Make table showing number of lamps and wattage of each (or total wattage) to be con-trolled by each dimmer. Tabulate, in the order you prefer to have the handles mounted, from left to right, indicating row if more than one, similar to the following typical example:

Handle Arrangement Left to Right	Name of Circuit	No. of Lamps	Size Lamps Watts	Total Wattage
1	Stage White Foots	40	60	2400
2	Stage White Border 1	30	60	1800
3	Stage White Border 2	30	60	1800
4	Stage White Pocket	36	60	2160
5 to 16	Blue, Amber, etc.	....	....	.....
17	House White Ceiling	60	100	6000
18	House White Balcony	30	100	3000
19	House White Brackets	20	60	1200

(3) Select the type dimmer required for each circuit from the dimmer ratings and construction data above. (Auto-transformer and resistance type dimmers should not be combined in the same bank).

PORTABLE INFRARED UNITS for QUICK HEATING OPERATIONS

For Use in
- Industry
- Automotive Service Shops
- Electric Motor Service Shops
- General Repair Shops
- Laboratories

EVENRAY SYSTEM fostoria
FOR BAKING • DRYING • PREHEATING • DEHYDRATING
Trade Mark Reg. U. S. Pat. Off

Manufactured by
Fostoria Pressed Steel Corp.
Fostoria, Ohio, U. S. A.



Model 62-248
$69.00
Ind. Net
Lamps not included

Fostoria infrared units provide quick, easily controlled heat sources; they can be moved from one job to another; they are safe to operate; are adaptable to a wide variety of baking, drying, dehydrating and preheating operations.

Industrial and experimental laboratories have many uses for these portable models.

Baking insulation on electric windings, protective finishes on wood and metal.

Drying: Wet electrical equipment; small foundry sand molds; metal after degreasing; glue and other coatings applied to paper and fabric; ink.

Preheating, plastic sheets prior to forming, shearing and punching; metal prior to soldering; metal parts to get shrink fit; metal and wood prior to finishing; oil and grease in drums.

Dehydrating paper and textiles when the amount of moisture to be removed is not too large.

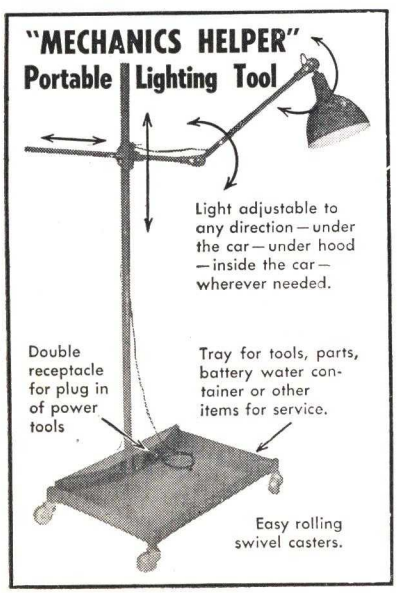
Miscellaneous. In addition to the above applications Models 60-000, 60-100 and 60-200 can be used advantageously for light metal soldering; removal of paint from wood; thawing of frozen pipes, regulators, valves, etc.; quick defrosting of refrigerators.

Model 62-248

Provides uniform coverage of intense infrared radiation over 500 sq. inches. Wired for 110-120 volts, single phase and accommodates four medium screw base clear glass infrared lamps of any wattage from 125 W. to 500 W.

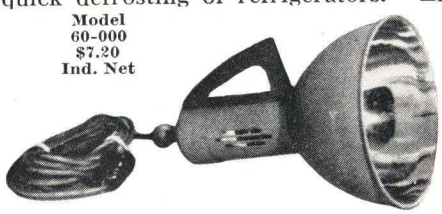
Completely flexible. Mounted on four 3-in. service casters. Reflector assembly may be rotated from horizontal position through all intermediate angles. Reflector assembly may be raised and lowered on upright support.

Reflectors are plated with gold to gain highest efficiency. Tumbler switch on back controls all 4 lamps. Twenty feet of heavy duty rubber cord with plug included. Conforms to National Electrical Code specifications.



Complete Portable Catalogs Available Upon Request

Model 60-000
$7.20
Ind. Net



Model 60-000

Strictly a hand model which can be converted to a self supporting model by addition of flexible arms and base later.

Mechanics Helper

Designed and recommended especially for automotive shops. Uses 150 - 300 watt reflector type illuminating lamps or reflector type infrared lamps for heating job such as thawing radiators, pumps, fuel lines, etc.

Ind. or Shop Price, Net, ...each **$16.50**

Model 60-200
$10.20
Ind. Net

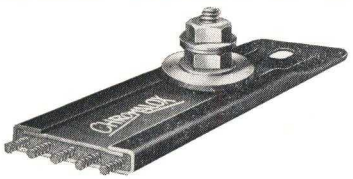


Flexible arms and clamp base permits this model to be mounted on benches or framework, either singly or in multiple pairs.

The flexible arms allow for any position desired. This model is 40 15/16 inches long from bench top to reflector edge. The clamp will fit on pipes of round or square stock up to 2 inches and on benches 2⅛ inches thick.

TYPE S CHROMALOX ELECTRIC STRIP HEATERS

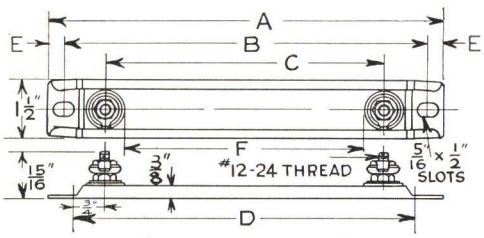
WITH ONE BOLT TERMINAL AT EACH END



Standard strip heaters are provided with mounting tabs at each end for air heating applications and for clamping to cylindrical surfaces. Slotted mounting holes are ⅛ inch wide by ½ inch long.

Style 5 Strip Heaters are without tabs. Utility clamps are used for clamping these strip heaters to the surface to be heated, mounting tabs are not used.

All strip heaters 1½ inches wide weigh approximately ¾ lb. per foot.



E IS ½ " FOR STRIPS 8" TO 26-¾" AND 9/16" FOR STRIPS 30-½ " TO 43" LONG

Dimensions

Nominal Size Inches	Dimens, Inches A	B	C	D	F	Nominal Size Inches	Dimens, Inches A	B	C	D	F
8	8	7	5	6½	4	24	23¾	22¾	20¾	22¼	19¾
9½	9½	8½	6½	8	5½	25½	25½	24½	22½	24	21½
12	12	11	9	10½	8	26¾	26¾	25¾	23¾	25¼	22¾
14	14	13	11	12½	10	30½	30½	29¾	26½	28	25½
15¼	15¼	14¼	12¼	13¾	11¼	33½	33½	32¾	29½	31	28½
18	17⅞	16⅞	14⅞	16¾	13⅞	36	35⅞	34¾	31⅞	33⅜	30⅞
19½	19½	18½	16½	18	15½	43	42½	41⅜	38½	40	37½
21	21	20	18	19½	17	.....	.....	.....	.....	.....	.....

Dimension D indicates over all length of Style 5 Heaters.

For 115 or 230 Volts

Overall Lgth. Inches *Standard	†Style 5	Maximum Sheath Temperature 750° F. Cat. No.	Watts	Price Each	1200° F. Cat. No.	Watts	Price Each
8	6½	**S-815**	150	**$2.50**	**S-802**	250	**$3.65**
12	10½	.....	.....	.....	**S-1202**	250	**4.05**
12	10½	**S-1225**	250	**2.65**	**S-1205**	500	**4.05**
14	12½	**S-1430**	300	**2.80**	**S-1405**	500	**4.25**
15¼	13¾	**S-1532**	325	**2.85**	**S-1505**	500	**4.30**
17⅞	16⅜	.....	.....	.....	**S-1805**	500	**4.60**
17⅞	16⅜	**S-1850**	500	**2.90**	**S-1897**	750	**4.65**
17⅞	16⅜	.....	.....	.....	**S-1801**	1000	**4.70**
19½	18	**S-1950**	500	**2.95**	**S-1905**	500	**4.70**
19½	18	.....	.....	.....	**S-1907**	750	**4.90**
19½	18	.....	.....	.....	**S-1901**	1000	**4.90**
21	19½	**S-2050**	500	**3.00**	.....	.....	.....
23¾	22¼	**S-2425**	250	**3.10**	**S-2405**	500	**5.10**
23¾	22¼	**S-2450**	500	**3.10**	**S-2407**	750	**5.10**
23¾	22¼	.....	.....	.....	**S-2401**	1000	**5.35**
25½	24	**S-2575**	750	**3.35**	**S-2501**	1000	**5.45**
26¾	25¼	**S-2670**	700	**3.40**	.....	.....	.....
30½	28	**S-3075**	750	**3.90**	**S-3007**	750	**6.05**
33½	31	**S-3375**	750	**4.25**	.....	.....	.....
35⅞	33⅜	**S-3610**	1000	**4.50**	**S-3601**	1000	**7.00**
42½	40	**S-4312**	1250	**5.40**	**S-4301**	1500	**7.95**

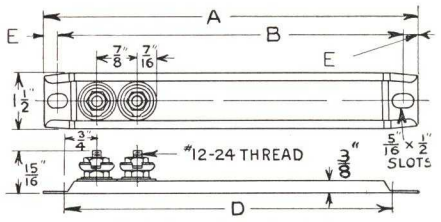
No. S-2450 also for 250 volts.

*See following listing for reference notes.

TYPE SE CHROMALOX ELECTRIC STRIP HEATERS

WITH 2-BOLT TERMINALS AT ONE END

For 115 and 230 Volts



E IS ½ " FOR STRIPS 8" TO 26-¾" AND 9/16" FOR STRIPS 30-½ " TO 96"

Dimensions

Nominal Size Inches	Dimens, Inches A	B	D	Nominal Size Inches	Dimens., Inches A	B	D
8	8	7	6½	33½	33½	32⅜	31
10½	10½	9½	9	36	35⅞	34¾	33⅜
12	12	11	10½	38½	38½	37⅜	36
14	14	13	12½	43	42½	41⅜	40
15¼	15¼	14¼	13¾	48	47⅞	46¾	45⅜
18	17⅞	16⅞	16⅜	54	53⅞	52¾	51⅜
19½	19½	18½	18	64	63⅞	62¾	61⅜
21	21	20	19½	72	71⅞	70¾	69⅜
24	23¾	22¾	22¼	82	81⅞	80¾	79⅜
25½	25½	24½	24	92	91⅞	90¾	89⅜
26¾	26¾	25¾	25¼	96	95⅞	94¾	93⅜
30½	30½	29⅜	28	....	....	....	....

Dimension D indicates overall length of Style 5 Heaters.

Overall Lgth. Inches *Standard	†Style 5	Maximum Sheath Temperature 750° F. Cat. No.	Watts	Price Each	1200° F. Cat. No.	Watts	Price Each
8	6½	**SE-815**	150	**$2.50**	**SE-802**	250	**$3.65**
12	10½	**SE-1225**	250	**2.65**	**SE-1205**	500	**4.05**
14	12½	**SE-1430**	300	**2.80**	**SE-1405**	500	**4.25**
15¼	13¾	**SE-1532**	325	**2.85**	**SE-1505**	500	**4.30**
17⅞	16⅜	.....	.....	.....	**SE-1805**	500	**4.60**
17⅞	16⅜	**SE-1850**	500	**2.90**	**SE-1807**	750	**4.65**
17⅞	16⅜	.....	.....	.....	**SE-1801**	1000	**4.70**
19½	18	.....	.....	.....	**SE-1905**	500	**4.70**
19½	18	**SE-1950**	500	**2.95**	**SE-1901**	1000	**4.90**
21	19½	**SE-2050**	500	**3.00**	.....	.....	.....
23¾	22¼	**SE-2450**	500	**3.10**	**SE-2405**	500	**5.10**
23¾	22¼	**SE-2475**	750	**3.25**	**SE-2407**	750	**5.10**
23¾	22¼	.....	.....	.....	**SE-2401**	1000	**5.35**
25½	24	**SE-2575**	750	**3.35**	**SE-2501**	1000	**5.45**
26¾	25¼	**SE-2670**	700	**3.40**	.....	.....	.....
30½	28	**SE-3075**	750	**3.90**	.....	.....	.....
33½	31	**SE-3375**	750	**4.25**	**SE-3307**	750	**6.60**
35⅞	33⅜	**SE-3610**	1000	**4.50**	**SE-3601**	1500	**7.00**
38½	36	**SE-3880**	800	**4.80**	.....	.....	.....
42½	40	**SE-4312**	1250	**5.40**	**SE-4301**	1500	**7.95**

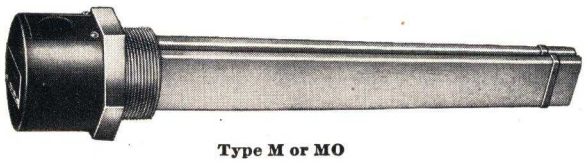
*Standard type has fastening tabs at each end with slotted mounting holes ⅛-inch wide by ½-inch long for bolting to supports.

†Style 5 Strip Heaters—Without tabs. Utility clamps are used for clamping these strip heaters to the surface to be heated, mounting tabs are not used.

When ordering specify if Style 5 is desired, also number and voltage.

CHROMALOX IMMERSION HEATERS

TYPES M AND MO



Type M or MO

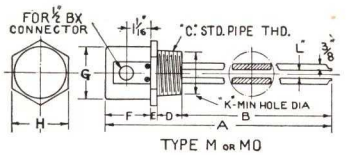
Uses—Because of their efficiency, Chromalox Immersion Heaters supply the most economical method for heating fluids in tanks, vats, kettles, boilers, stills and other containers where direct heat energy is desirable.

Installation—Chromalox Immersion Heaters are easily installed. Where tank wall is ⅜-inch thick or more, simply drill a hole and thread it with either 1¼ or 2-inch standard pipe thread, depending upon what immersion heater is used. If tank wall is less than ⅜-inch thick, solder or weld a standard 1¼ or 2-inch pipe threaded flange or metal disc to tank wall and install immersion heater.

Types of Heaters

Type M—For water heating and solutions that readily absorb generated heat. Regularly supplied with copper sheath and bronze screw plug. For alkali solutions where copper is attacked, steel sheath, iron screw plug and welded joint construction is supplied — when specified. Delivery, one week.

Type MO—For heating mineral oils, paraffin and other fluids that absorb heat slowly. Supplied with steel sheath, iron screw plug, and welded joints. Can be furnished with copper sheath and bronze screw plug where steel would be attacked. Delivery, one week.



Dimensions in Inches

Type	C*	D	E	F	G	H	K	L
M	1¼	¾	⅜	2⅞	2 7/32	2⅜	1⅜	3/16
M	2	1	½	2 11/16	2⅞	3	2	7/16

*Dimension C refers to standard pipe thread.

115 and 230 Volts

Cat. No.	Watts	Heats	Pipe Thrd. Size In.	Overall Length Inches Dimen. A	Heated or Blade Length Inches B	Price Each
Type M—For Water Heating—Copper Sheath						
M-150	500	1	1¼	11	7	**$9.50**
M-110-3	1000	3	1¼	11	7	**14.80**
M-220-3	2000	3	2	14 1/16	9⅞	**17.20**
M-230-3	3000	3	2	18 5/16	14⅛	**20.25**
TYPE MO—For Oil and Paraffin Heating Steel Sheath						
MO-110	1000	3	1¼	13	9	**17.20**
MO-220	2000	3	2	21 5/16	17⅛	**23.30**
MO-230	3000	3	2	28 5/16	24⅛	**29.10**

For dimensions A and B, see drawing above.

CHROMALOX URN HEATERS

TYPES UH AND UHH—ADJUSTABLE



These urn heaters are fast, efficient in heating, with smooth, non-warping special alloy top plate. No troubles from spill-overs. From the pedestal of the urn, a threaded stud extends up to the top part.

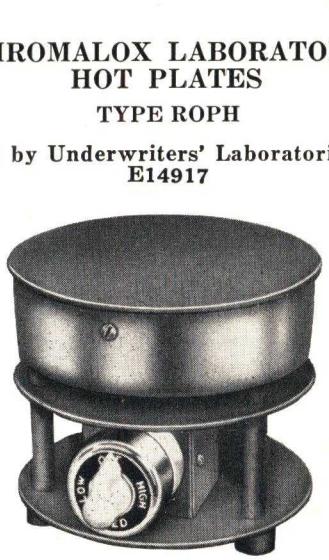
The heating face can be moved up or down, allowing the heater to be placed under a low urn and the heating face pressed tightly against the urn bottom, resulting in metal-to-metal contact for quick heating. Minimum height 7 inches—maximum height 10 inches. Finished in black crinkled lacquer, metal parts including switch are chromium plated.

Cat. No. for 115-120 Volts	Cat. No. for 230-240 Volts	Diameter of Heated Top in Inches	Watts	Approx. Weight Lbs.	Price Each
UHH-7312	**UHH-7412**	7	1200	8½	**$17.15**
UHH-8320	**UHH-8420**	8½	2000	11	**21.15**
UH -9130	**UH -9230**	11⅜	3000	9¼	**35.65**

CHROMALOX LABORATORY HOT PLATES

TYPE ROPH

Approved by Underwriters' Laboratories, Inc.—E14917



Designed for efficient, continuous heavy-duty laboratory or process work. Advantages: no warping, unusually long life, uniform surface temperature, baffles prevent feet getting hot, permitting use on wood tables, etc. Cool operation of switch eliminates contact failures and assures easy and safe handling.

The resistor is embedded in refractory in recesses or channels in bottom of special alloy top plate. Sturdy supporting frame with heat baffles — switch mounted on base. Molded plastic feet.

All sizes furnished complete with 6-foot cord and plug.

Cat. No.	Watts 3 Heats	Volts Specify 120 or 240 Volts	Diameter of Top Inches	Price Each
ROPH-7066	660	120 or 240	7	**$14.40**
ROPH-7120	1200	120 or 240	7	**15.80**
ROPH-9200	2000	120 or 240	8½	**19.70**

AMERICAN BEAUTY ELECTRIC SOLDERING IRONS



No. 3138



No. 3158



No. 3178



No. 3198

No. 3138: Designed primarily for production and maintenance in radio, telephone, telegraph, ignition, switchboard and telephone installation work and similar industrial applications.

No. 3158: For the same purposes as the No. 3138 but for work requiring an iron of greater capacity.

No. 3178: For use on still heavier work; for light commutators and service and production work.

No. 3198: For heavy work of all kinds. Supplies a large volume of heat at high temperature. Used by manufacturers in many different lines; for shop, service, production work, etc.

Each of the above irons is equipped with a baffle plate, at the shank, to prevent free conduction of heat to the handle.



No. 3128



No. S-76

No. 3128: Designed for lighter work than the No. 3138 in similar applications. Has plug-type ¼-inch diameter tip with a heating element of chrome nickel but without compression winding as used in the higher-wattage No. 3138-3198 series. Element and casing with handle springs and terminal assembly built as a unit.

No. S-76: Designed for work of the same kind as the No. 3128 but has screw-type $\frac{7}{16}$-inch diameter tip. Element with casing and handle springs and terminal assembly built as a unit.

Cat. No.	Diam. of Tip	Watts	Net Wt. Oz.	Length Inches	Casing Dia. In.	Shpg. Wt. Lbs.	Price Each
3138	⅜	100	16	12⅞	⅞	2	$8.00
3158	⅝	200	28	13⅝	1¼	3	9.60
3178	⅞	300	42	14⅜	1⅝	4	12.90
3198	1⅛	550	60	15	1¾	5¾	16.80
3128	¼	60	7½	12¼	⅞	1	5.00
S-76	$\frac{7}{16}$	50	6	11⅝	⅞	1	5.00

Made in standard voltages and for 32 volts.

No. 3138 also made for 6, 12, 24 and 55 volts.

Nos. 3138-3198 can be equipped with 3-conductor cord, one wire grounded, at slight additional charge.

Separate heat-insulating stand supplied with each iron.

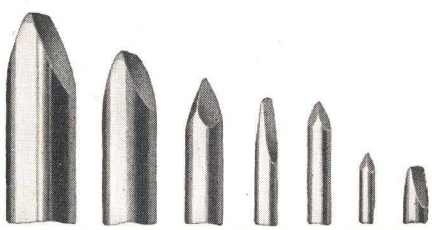
AMERICAN BEAUTY TEMPERATURE REGULATING STAND



This is a thermostatically controlled device for the regulation of the temperature of an electric soldering iron while at rest. When placed on this stand, soldering iron is maintained at working temperature, ready for instant use or, if desired, at a lower temperature. Through an adjustment on bottom of stand, thermostat may be set for the maintenance of any desired temperature — from very low, or warm, to full working temperature. Body of stand is molded plastic. Soldering iron cradle proper is of metal. Stand is equipped with cord and attachment plug-cap for connection to current and with a receptacle for connection of soldering iron. It is designed for use with electric soldering irons up to 660 watts capacity and on circuits up to 240 volts.

Price, No. **475** Temperature Regulating Stand, weight 27 oz.....each **$5.50**

AMERICAN BEAUTY COPPER TIPS



3798 for 3198 Iron	3778 for 3178 Iron	3758 for 3158 Iron	3738S for 3138 Iron	3738 for 3138 Iron	3728 for 3128 Iron	3734 for S-76 Iron

These copper tips are made from commercially pure, drawn bar, copper rod. Except for the No. 3734 screw-on type tip for the No. S-76 iron, each tip is designed to fit into, and to the full length of, core of heating unit of the particular iron for which it is intended. Maximum area of contact between the tip and heating unit is thus assured. Tips are of uniform diameter throughout their entire length.

Standard shaped tips with which the various models are equipped are shown in the illustration; but pyramidal, instead of chisel type, and vice versa, can be supplied when so specified without additional charge. For No. 3138 a special, long, semi-chisel shaped tip No. 3738-S can be supplied for telephone and switchboard work.

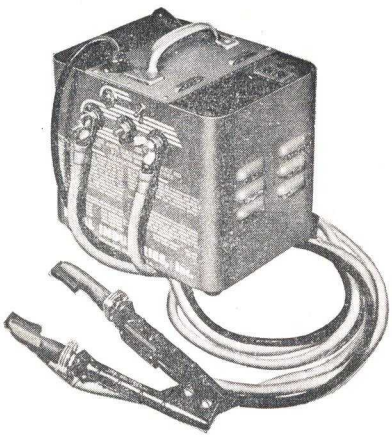
Heating Elements—Extra Copper Tips

For Above Soldering Irons

Description	Watts	Heating Elements Cat. No.	Heating Elements Price Each	Copper Tips Cat. No.	Copper Tips Price Each
For No. S-76	50	9271	$3.00	3734	$0.40
For No. 3128	60	9272	3.00	3728	.40
For No. 3138	100	9273	3.60	3738	.50
For No. 3158	200	9275	4.80	3758	1.10
For No. 3178	300	9277	6.50	3778	1.90
For No. 3198	550	9279	8.55	3798	2.20

IDEAL THERMO-GRIP SOLDERING TOOLS

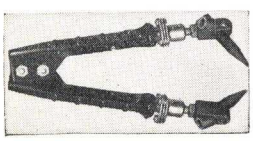
1000 WATT MODEL THERMO-GRIP



1000-watt model Thermo-Grip is adaptable to practically all soldering jobs — closely grouped parts, difficult positions, cramped spaces, inflammable surroundings. Does all types of soldering quicker, safer and easier. Heats instantly and concentrates heat only on the part to be soldered. Eliminates fire hazard and danger of melting nearby joints or burning other parts. Does not oxidize the tin in solder, weaken the solder, or discolor the finished job. Reaches soldering temperature in less than one minute. Handy thumb-switch permits close heat control for better soldering. All parts fully insulated. Current is reduced to harmless low voltage. Operates on resistance heating principle. Can be used for long periods of time without overheating.

ATTACHMENTS

Plier Attachment (Illustrated above with Power Unit) — for soldering applications — where work may be held in jaws and heated; i.e. removing or applying solder lugs up to 450 amps., sweating and unsweating copper tubing and fittings up to 1¼ inches diameter, soldering wire joints, etc. Carbons are replaceable. Rating: 1000 volt amps.



Pencil Attachment — for spot soldering — where ground clamp may be attached to a metal part of work to complete secondary circuit; i.e. spot soldering, soldering sheet metal, wire joints, commutator risers, etc. Includes "C" type ground clamp. Rating: 600 volt amps.

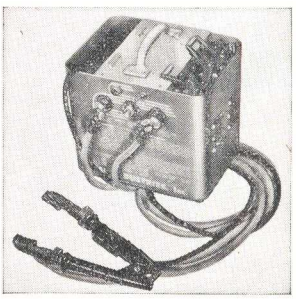


Fork Attachment—for soldering in restricted spaces — where straight tools cannot be used; i.e. soldering lugs, terminals or connections in switch boxes, switchboards, inside machines, etc. The electrode holders can be turned and locked in any position. Rating: 600 volt amps.

Cat. No.	Description	Wt. Oz.	Price Each
12-062	Power Unit	....	**$41.40**
12-066	Secondary Lead Assembly	....	**6.50**
12-067	Plier Attachment only	13	**10.70**
12-068	Fork Attachment only	6	**12.00**
12-069	Pencil Attachment only	13	**8.40**

IDEAL THERMO-GRIP SOLDERING TOOLS

450 WATT MODEL THERMO-GRIP



Heats ½-inch copper tubing to soldering temperature in 40 seconds using 40-60 solder. Handles solder lugs up to 225 ampere.

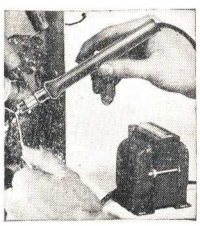
Heats quickly — has thumb - switch for close heat control — modern in design, light weight, compact — can be used with ease and safety on small parts, wires, terminals, lugs, copper tubing up to ¾ inch, etc. Safe — all current carrying parts fully insulated — no open flame.

Attachments—Identical to 1000 Watt Unit except proportionately smaller in size.

When ordering specify (1) Power Unit (2) Secondary Leads (3) Attachments desired.

Cat. No.	Rating	Price Each
12-072	115 v., 50-60 cycle	**$31.75**
12-074	230 v., 50-60 cycle	**34.20**

INSTANT HEAT ELECTRIC SOLDERER

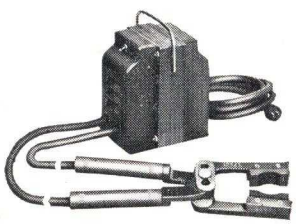


Heats instantly — no preheating. Touch work to be soldered and instantly it is brought up to soldering temperature. Complete unit includes transformer with a 6-ft. primary cord, 5-ft. secondary lead and soldering tool.

For light repair work and servicing such as fine instrument work, radio and telephone repairs, soldering small fuses, and similar light duty jobs. For intermittent service only. Weight 2 pounds.

Price, No. **12-005** (115 v., 50-60 cy.)....each **$9.20**

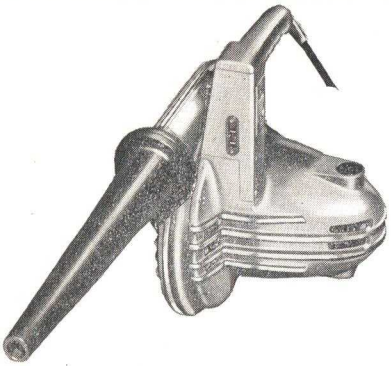
HEAVY-DUTY MODEL THERMO-GRIP



For big soldering jobs. 2500 watt capacity. Complete with pliers for soldering lugs up to 1050 ampere size, making stator connections, sweating and unsweating copper pipe and fittings up to 2½ inches diameter or up to 4 inches diameter with soft solder. Has Hi-Lo heat switch; Hi—2500 watts intermittent, Lo—2125 watts.

Cat. No.	Rating	Price Each
12-048	115 v., 50-60 cycle	**$114.40**
12-049	230 v., 50-60 cycle	**114.40**

IDEAL HAND TYPE CLEANERS

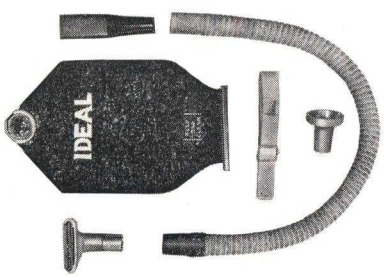


Developed through years of air-engineering experience, the improved Ideal Cleaner will do a better job, faster, at less cost. This light weight, perfectly balanced, 4-in-1 model handles a wide range of work, can be operated continously at peak efficiency and with amazing economy.

Delivers air at higher velocity (Heavy Duty Model—26,500 feet per minute) yet, because it blows only dry air at low pressure the Ideal Cleaner does not harm even delicate equipment.

Cat. No.	Description		Price
22-110	Heavy Duty Model	(1⅓ H.P.)....	**$138.87**
22-113	Medium Duty Model	(⅔ H.P.)....	**110.53**
22-163	Light Duty Model	(½ H.P.)....	**66.00**

STANDARD ATTACHMENTS FOR USE WITH HAND TYPE CLEANERS



Dust-proof bag, hose connection (inlet side), flexible hose (4 ft. x 1½ inches), metal nozzle (5 inch) and brush, flat fibre nozzle and shoulder strap.

Price, No. **22-109** Attachments.....per set **$22.00**

HEATER NOZZLE



Fits any Ideal Hand Type cleaner. Especially suitable for use where rapid removal of moisture is desirable in conjunction with cleaning. Also for quickly drying paints, varnish, ink, etc.

Price, No. **22-116** Heater Nozzle.....each **$19.53**

SPRAYER ATTACHMENT

For spraying powder, liquids, insecticides, varnish, lacquer, calcimine, etc.

22-139	Quart Size	**$7.33**
22-140	Pint Size	**5.07**

To be used with No. L4243 hose connection.

IDEAL TANK-TYPE CLEANER



New
All-Purpose Unit
for

- General Cleaning
- Scrap Collecting
- Water Pick-up

Ideal Tank-Type Cleaner — for better, faster cleaning in industrial and commercial establishments.

It whisks up every particle of dust, dirt, metal and lint and reaches into hard-to-get-at places. It is particularly valuable for scrap collection and is extremely thorough in removing water from factory or service station floors, or as a "finishing touch" to scrubbing.

A unique filtering system which is entirely self-contained elimiates the (conventional) external bag. Incoming air is whirled around inside the tank and heavy particles are deposited there.

The air then passes through a cloth bag filter where fine dust is removed. Collected dirt is easily emptied from the Cleaner by simply raising the vacuum sealed lid and lifting out the 9 gallon tank and dust bag.

The Ideal Tank-type Cleaner moves easily, over rough or smooth surfaces, on its four large 5-inch diameter wheels. It has a low center of gravity with the motor unit mounted in the bottom, making it difficult to upset. Swivel wheels in front permit the unit to follow the hose with ease. Small width clearance permits the Ideal Cleaner to be moved down narrow aisles, between desks and machinery.

The 1⅓ H.P. continuous duty motor provides ample power without overheating. A strong fan and fan assembly with curved blade design makes for better air efficiency and smoother, more quiet operation.

A 30-foot primary cord permits 2700 sq. ft. of coverage from a single outlet. The handle is just the right height for convenient pushing. There is a handy storage compartment for attachments and cord.

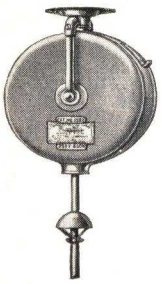
Cat. No.	Description	Price
22–200	Cleaner only, 115 V., AC-DC.....	**$333.33**
22–118	Cleaner with Standard Attach....	**393.32**
	Standard Set of Attachments for "Tank Type" Cleaner include: Nos. 22-130 Hose (10′), 22-175 Floor Nozzle (12″), K-1706 Brush, 22-178 Fibre Floor Tool, 22-179 Double Bend Steel Handle (46″)	**60.00**

For Other Attachments See Catalog

APPLETON PORTABLE REELITES

Rating—250 Volts, 660 Watts

PORTABLE TYPE REELITES



An automatic reeling device for extension light cords. The light is always available within arm's reach and no time is lost in untangling cords or plugging in for new extensions. Each reel has a ratchet stop which works exactly like a window shade. Furnished standard with cover plate which fits over all 3¼ or 4-inch octagonal outlet boxes. Finish is light grey enamel. Furnished with No. 16 gauge, 2-conductor cord.

Cat. No.	Description	‡Wt. Lbs.	Wt. Lbs. Per Doz.	Price Each
	With 12 Feet of Cord—5½-inch Reelite			
1532	Without Wiring Device....	2	64	•
1533	Brass Shell Key Socket....	2	64	•
1534	Composition Key Socket..	2	64	•
	With 25 Feet of Cord—7¼-inch Reelite			
1524	Without Wiring Device....	1½	92	•
1525	Brass Shell Key Socket (Less Guard)	1½	92	•
1526	Composition Key Socket (Less Guard)	1½	92	•
1530	Grounding Type without Wiring Devices†	1½	95	•
	With 40 Feet of Cord—10-inch Reelite			
1519	Without Wiring Device....	1	170	•
	With 50 Feet of Cord—10-inch Reelite			
1520	Without Wiring Device....	1	170	•

†Furnished with No. 16-3 conductor cord, two of which are connected to brushes and third grounded to frame.

‡Lifting Capacity. For devices attached to cord of Reelites listed above.

ACCESSORIES



RE-3006
Vaporproof, Keyless



RE-7000R Keyless
RE-7000SR Levolier



RE-4000R Keyless
RE-4675R Levolier

Cat. No.	Type of Socket	Type of Handle	Max. Lamp Size Watts	Weight Lb.	Weight Oz.	Price Each
RE108K	Keyless†	Rubber	100	..	12	•
	Vaporproof Type					
RE3006	Keyless	Plastic	60	1	14	•
	With Half Reflector					
RE7000R	Keyless	Rubber	100	1	5	•
RE7000SR	Levolier	Rubber	100	1	5	•
RE4000R	Keyless	Wood	100	1	3	•
RE4675R	Levolier	Wood	100	1	2	•
	With Separable Hook					
RE4675RA	Levolier	Wood	100	1	2	•

†(2-wire side outlet receptacle.)



FOR TYPE "SJ" CORD

20 Amps., 300 Volts

Especially developed for Type SJ 2- and 3-conductor cords. The roller outlet permits either ceiling, wall, or base mounting. 25 feet of cord.

Cat. No.	Size Cord	No. of Cond.	Wt.Lbs. Each	Price Each
15218	18	2	14	•
15318	18	3	14	•
15216	16	2	14	•
15316	16	3	14	•

•See Price List

APPLETON PORTABLE REELITES

Rating—250 Volts, 660 Watts



VAPORPROOF TYPE

Furnished with Vaporproof Globe and Heavy Duty Wire Guard. Will accommodate standard lamps up to and including 60-Watt.

Light grey enameled reel-unit, 7¼ inches in diameter, with ceiling mounting for attaching to standard 3¼ or 4-inch octagonal outlet boxes. 20 feet No. 16 gauge, 2-conductor cord; plastic handle; heavy-duty wire guard.

Cat. No.	Type Socket	Wt. Lbs. Per Doz.	Price Each
1509	Keyless.....	130	•

HEAVY GUARD TYPE



Reelite is supplied with or without switch in handle. Wire guard accommodates standard lamps up to and including 100-Watt.

25 feet No. 16 gauge, 2-conductor cord. Reel-unit, 7¼ inches in diameter, light grey enameled finish. Has base for attaching to standard 3¼ or 4-inch octagonal outlet boxes; wood handle and heavy-duty wire guard.

With Half Reflector

Cat. No.	Type Socket	Wt. Lbs. Per Doz.	Price Each
1522	Keyless	126	•
1528	Levolier	130	•



RUBBER HANDLE TYPE

Furnished with or without switch in handle. Also has heavy duty wire guard accommodating standard lamps up to and including 100-Watt.

Light grey enameled reel-unit, 7¼ inches diameter, with base for attaching to 3¼ or 4-inch outlet boxes; 25 feet No. 16 gauge, 2-conductor cord; rubber handle.

With Half Reflector

Cat. No.	Type Socket	Wt. Lbs. Per Doz.	Price Each
1516	Keyless	124	•
1516-R-2†	Keyless	120	•
1517	Levolier	126	•

†2-wire side outlet receptacle.

•See Price List

APPLETON PORTABLE REELITES

Rating—250 Volts, 660 Watts

BATTERY LAMP TYPE

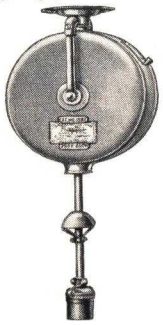


This special type Reelite is equipped for 21 or 32 C.P. 6-8 volt battery lamp to operate off a storage battery. Bulbs not included.

Light grey enameled, reel-unit, 7¼ inches diameter, with base for attaching to ceiling, or wall of truck; 25 feet No. 16 gauge, 2-conductor cord.

Cat. No.	Type	Wt. Lbs. Per Doz.	Price Each
1518	Battery Lamp	96	•

MACHINE TOOL TYPE



This Reelite is equipped with a connector body so that any portable electrical tool or device can be attached. Light grey enameled reel-unit, 7¼ inches diameter, with base for attaching to 3¼ or 4-inch outlet boxes; 25 feet No. 16 gauge, 2-conductor cord.

Cat. No.	Type	Wt. Lbs. Per Doz.	Price Each
1523	Machine Tool	92	•

CLOTH CUTTING MACHINE TYPE

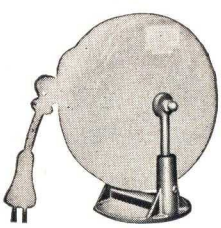


Special Reelite with swivel cover, special cambric-covered, light weight, No. 18 2-conductor cord and light spring tension without ratchet stop. No wiring devices furnished. Light grey enameled reel-unit with base for attaching to 3¼ or 4-inch outlet boxes.

Cat. No.	Diam. Reel	Lgth. Cord	Wt. Lbs. Per Doz.	Price Each
1511	10 ″	50′	148	•
1521	7¼″	25′	84	•

CAST BASE

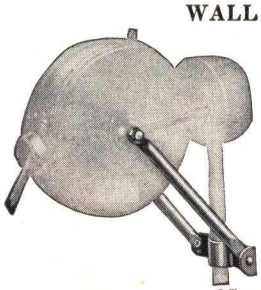
Used for mounting of Portable Reelites, base down. Base may be furnished instead of 3¼ or 4-inch outlet plate when specified, at no extra charge. If furnished separately, the catalog number and list price must be added. Light grey enameled finish.



Cat. No.	Description	Price Each
1535	Specify No. Reelite	•

This base cannot be used with Nos. 1519 and 1520 Reelites.

WALL BRACKET



Recommended for wall mounting of Portable Reelites. Support may be ordered separately or with Reelite at an additional list of **$1.50** to price of Portable Reelite. Light grey enameled finish.

Cat. No.	For Use With	Price Each
1538	5½″, 7¼″ and 10″ dia. Reelite	•

•See Price List

CONSTANT DUTY REELITES

SPRING-DRIVEN CABLE LIFT REEL



TYPE "A" REELITE

When ordering, specify—catalog number of Reelite; length, gauge and number of conductors of cable; type of cable outlet desired.

Material is cast aluminum and steel. Black enameled finish.

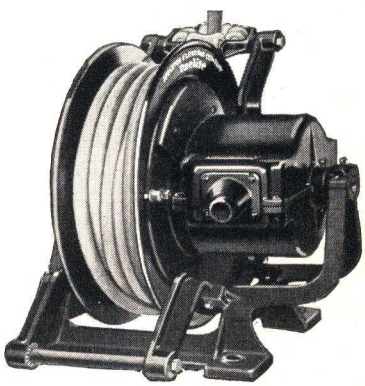
Type "A" 3 Spring—35 Amp., 440 Volts

Cat. No.	Wt. of Reelite Only	No. of Conductors	Max. Capacity, in Feet, of Various Sizes and Conductors of Cable No. 18	No. 16	No. 14	No. 12	No. 10
A-23	36 lbs.	2	55	55	50	35	....
A-33	37 lbs.	3	55	55	45	35	....
A-43	38 lbs.	4	55	55	35	30	....
A-53	43 lbs.	5	50	50	30	20	....
A-63	44 lbs.	6	45	40	20	20	....
	Type "A" 5 Spring—35 Amp., 440 Volts						
A-25	40 lbs.	2	100	90	55	....	....
A-35	41 lbs.	3	90	75	50	....	....
A-45	42 lbs.	4	75	60	....	....	....
A-55	47 lbs.	5	60	....	....	....	....
A-65	48 lbs.	6	50	....	....	....	....

REELITES FOR TYPE "S" CORDS

When ordering, specify—catalog number of Reelite; length, gauge and number of conductors of cable; type of cable outlet desired.

Material is cast aluminum, and steel. Black enameled finish.



Type "BS"—35 Amp., 600 Volts

Cat. No.	Wt. of Reelite Only	No. of Conductors	Max. Capacity, in Feet, of Various Sizes and Conductorsof Cable No.18	No.16	No.14	No.12	No.10
BS-22	124 lbs.	2	....	....	60	60	55
BS-32	126 lbs.	3	....	....	60	60	55
BS-42	128 lbs.	4	....	65	60	50	50
BS-52	154 lbs.	5	65	65	55	50	45
BS-62	156 lbs.	6	65	65	55	50	40
BS-72	158 lbs.	7	65	65	55	50	40
BS-82	160 lbs.	8	60	55	40	35	30
	Type "CS"—35 Amp., 600 Volts						
CS-24	154 lbs.	2	110	110	105	90	85
CS-34	156 lbs.	3	110	110	100	85	70
CS-44	158 lbs.	4	110	110	90	75	60
CS-54	184 lbs.	5	110	100	75	65	55
CS-64	186 lbs.	6	100	100	65	55	45
CS-74	188 lbs.	7	100	100	65	55	45
CS-84	190 lbs.	8	85	80	45	40	35

RATCHET—For installations where constant tension is not desired, a gravity-type ratchet may be furnished at extra charge. See Schedule "CDR." Orders must specify mounting position of Reelite base.

•See Price List

CONSTANT DUTY REELITES
SPRING-DRIVEN CABLE LIFT REEL
REELITES FOR TYPE "S" CORDS (Continued)

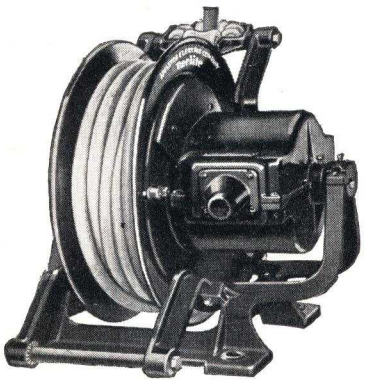
Type "DS"—35 Amp., 600 Volts

Cat. No.	Wt. of Reelite Only	No. of Conductors	Max. Capacity, in Feet, of Various Sizes and Conductors of Cable No. 18	No. 16	No. 14	No. 12	No. 10
DS-32	214 lbs.	3	.....	.....	....	....	80
DS-42	216 lbs.	4	.....	.....	....	80	75
DS-52	240 lbs.	5	.....	.....	80	75	70
DS-62	242 lbs.	6	.....	.....	80	75	65
DS-72	244 lbs.	7	.....	.....	75	70	65
DS-82	246 lbs.	8	.....	.....	65	65	50

Type "ES"—35 Amp., 600 Volts

ES-24	272 lbs.	2	150	150	140	135	130
ES-34	274 lbs.	3	150	150	140	135	125
ES-44	276 lbs.	4	150	150	130	130	105
ES-54	300 lbs.	5	150	150	130	110	90
ES-64	302 lbs.	6	150	140	110	95	80
ES-74	304 lbs.	7	150	140	110	90	70
ES-84	306 lbs.	8	130	130	85	70	55

REELITES FOR TYPE "W" CABLES



When ordering, be sure to specify catalog number of Reelite; length, gauge and number of conductors of cable; and type of cable outlet required.

Material is cast aluminum and steel. Black enameled finish.

Type "BW"—100 Amp., 600 Volts

Cat. No.	Wt. of Reelite Only	No. of Conductors	Max. Capacity, in Feet, of Various Sizes and Conductors of Cable No.8	No.6	No.4	No.3	No.2	No.1
BW-12	122 lbs.	1	60	60	55	....	....	....
BW-22	124 lbs.	2	45	35	20	....	....	....
BW-32	126 lbs.	3	40	30	20	....	....	....
BW-42	128 lbs.	4	30	25	15	....	....	....

Type "CW"—100 Amp., 600 Volts

CW-14	152 lbs.	1	100	100	85	....	....	....
CW-24	154 lbs.	2	55	40	25	....	....	....

Type "DW"—100 Amp., 600 Volts

DW-12	210 lbs.	1	....	....	....	75	65	60
DW-22	212 lbs.	2	75	65	45	35	30	25
DW-32	214 lbs.	3	65	50	35	30	25	20
DW-42	216 lbs.	4	50	40	25	20	20	15

Type "EW"—100 Amp., 600 Volts

EW-14	270 lbs.	1	140	135	120	110	100	75
EW-24	272 lbs.	2	90	70	....	....	....	....
EW-34	274 lbs.	3	70	55	....	....	....	....
EW-44	276 lbs.	4	55	45	....	....	....	....

Type "EWM"—100 Amp., 600 Volts
Special Mill Type

EWM-15	285 lbs.	1	140	135	120	110	100	75
EWM-25	287 lbs.	2	90	70	....	....	....	....
EWM-35	289 lbs.	3	70	55	....	....	....	....
EWM-45	291 lbs.	4	55	45	....	....	....	....

RATCHET—For installations where constant tension is not desired, a gravity-type ratchet may be furnished at extra charge. See Schedule "CDR." Orders must specify mounting position of Reelite base.

Schedule "RE" Discounts—Group 3

CONSTANT DUTY REELITES
SPRING-DRIVEN CABLE LIFT REEL
TYPE "EG" FOR "W" CABLES
Rating — 100 Amp., 600 Volts



When ordering, specify catalog number of Reelite; length, gauge and number of conductors of cable. Spring-driven through cut gears. Cable outlet is four roller guide type.

Material is cast aluminum and steel. Black enameled finish.

Cat. No.	Wt. of Reelite Only	No. of Conductors	Max. Capacity, in Feet, of Various Sizes and Conductors of Cable No.8	No.6	No.4	No.3	No.2	No.1
EG-22	358 lbs.	2	....	75	60	55	50	45
EG-32	360 lbs.	3	75	65	55	50	45	40
EG-42	362 lbs.	4	70	60	50	45	40	35
EG-14	370 lbs.	1	....	....	130	130	120	110
EG-24	372 lbs.	2	110	105	90	70	65	50
EG-34	374 lbs.	3	105	100	75	65	60	45
EG-44	376 lbs.	4	100	85	60	55	45	....

RATCHET—For installations where constant tension is not desired, a gravity-type ratchet may be furnished at extra charge. See Schedule "CDR." Orders must specify mounting position of Reelite base.

Schedule "RE" Discounts—Group 3

ROLLER CABLE OUTLETS
For Constant Duty Reelites

In order to obtain maximum efficiency from the Constant Duty Reelite, it is necessary not only to choose the correct outlet but also to set it in correct position so that future difficulties and additional expenses are avoided.

GUIDE ROLLER TYPE CABLE OUTLET

Used generally for all conditions where cable is drawn at a tangent to reel drum. Cable may be pulled within a conical plane of 30 to 40 degrees without a serious loss of efficiency.



Guide Roller Type

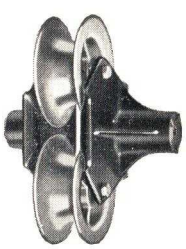


SWIVEL TYPE CABLE OUTLET

Used where cable must be drawn at right angles to drum and in arcs of a maximum range of 225 degrees. Only cable O.D. of 1⅛-inch and less can be used with this outlet.

LARGE ROLLER TYPE

Used for installation where cable is drawn out in a straight line parallel to the track and where current source is at the mid-point of the runway. Only cable O.D. of 1⅛-inch and less can be used.

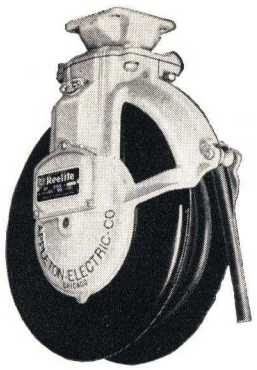


All Constant Duty Reelites are furnished with any one of the Cable Outlets (illustrated above) as standard equipment. When purchased separately, prices on request.

Schedule "RE" Discounts—Group 3

APPLETON TYPE "YS" REELITE

PORTABLE POWER FOR ELECTRIC HOISTS

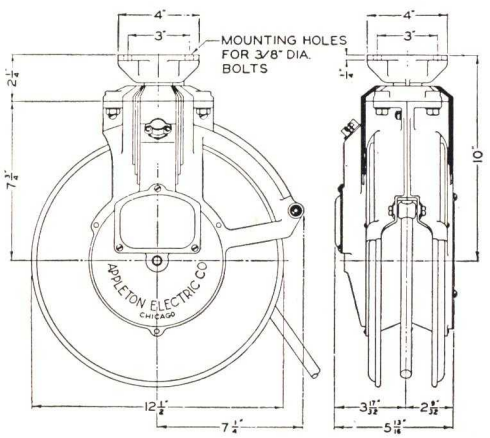


An automatic take-up, spring-operated cable reel designed principally to furnish power to traveling electric hoists operating on straight or curved tracks.

Type "YS" Reelites are furnished complete with swivel base and Type S cord assemblies. Cord assemblies have skinned leads with solderless lugs directly connected to terminal block on reel drum side. Swivel base has cast stop lug which limits rotation to approximately 335 degrees. It is not recommended for endless monorail systems which require collector rings for continuous rotation.

As reel swivels with respect to its fixed mounting, a looped, flexible rubber cord should be used to supply current to the brushes. When hoist is mounted on an ungrounded support, an extra conductor must be supplied to maintain the safety grounding circut. For single phase systems, a 3-conductor reel should be used; for three phase systems, a 4-conductor reel should be used. The grounding shunt regularly furnished may be discarded only when hoist is operating on a grounded monorail track. In this case, no extra conductor is necessary.

Dimensions in Inches



Type "YS" Cord Reel

Furnished complete with swivel base and maximum length of Type S cord.

10 Amps., 550 A.C., 250 D.C.

Wire Gauge No.	Conductors	Cat. No.	Cord Length	Net Wt. Lbs.	Price Each
	2	**YS162-45**	45′	23	•
16	3	**YS163-45**	45′	24	•
	4	**YS164-40**	40′	25	•

15 Amp., 550 A.C., 250 D.C.

	2	**YS142-40**	40′	25	•
14	3	**YS143-35**	35′	25	•
	4	**YS144-25**	25′	25	•

Finish: Two-tone baked enamel.

•See Price List

APPLETON RETRACT-O-REEL



The Appleton Retract-O-Reel is always positive in action. The solid cast, streamlined housing is dust and dirt-proof.

This Retract-o-Reel balancer has been designed and developed at the request of many users of the Appleton Reelites — many of whom were dissatisfied with other available balancers.

The field for application of small tool balancers is tremendous — ranging from small shops having an application for one to a dozen, to those larger industrials using portable tools by the hundreds. The application of the Appleton Retract-o-Reel is definitely a practical suggestion of means to enable its users to save man hours by speeding up production and cutting down tool maintenance costs.

The Appleton Retract-o-Reel embodies the following features:

1. The Retract-o-Reel is streamlined and made of cast aluminum.

2. The newly designed wire grip stopper employs a wedge type principle of gripping which insures extra long life for the wire rope while assuring a positive grip — no set screws to injure or break the wire rope even with constant operation.

3. The end of the wire rope is furnished with an eye loop made of a swaged-in thimble permitting quick tool connection.

4. The Retract-o-Reel turns on self-lubricated oil-less bearings.

Furnished with 6 feet, preformed wire rope, rubber bumper, cable clamp, and thimble in swaged eye loop.

Cat. No.	Weight of Tool To Be Balanced in Lbs. Max.	Min.	Active Rope Max. Working Range in Ft.	Inactive Rope Min. Lgth. in Ft. Outside Reel Drum	Price Each
B21- 51	5	0	6	0	•
B21- 71	7	5	6	0	•
B21- 81	8	7	5	1	•
B21-101	10	8	1½	4½	•

Net weight each, 6 lbs.

RETRACT-O-REEL HAND WHEEL



Hand wheel fits tension adjustment stud on Retract-o-Reel. It affords safe and quick spring tension adjustment for proper balance especially after reel servicing. Net weight each, 8 oz.

Price, No. **A1-B21** Retract-o-Reel Hand Wheel .....each •

•See Price List

TYPES CA AND CF AIR-FLUID REELS

FOR PAINT-SPRAY AND BLOW GUN APPLICATIONS

Max. Pressure: Air — 150 Lbs. Fluid — 125 Lbs.



Type "CA" Air Hose Reel equipped with 25 ft. of ¼" Air Hose

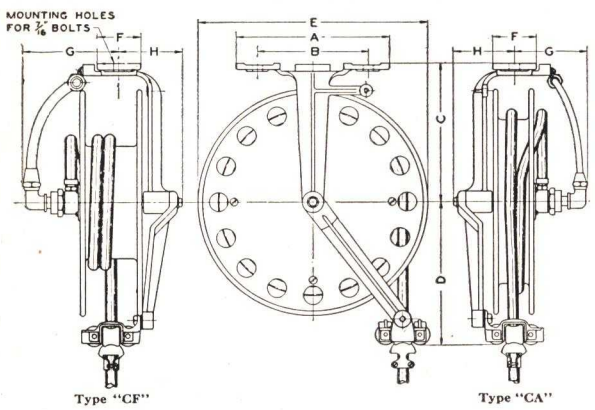
The CA and CF Air and Fluid Reels are particularly useful for light duty pneumatic tool, paint spray, and blow gun applications where it is desirable to keep the hose free from kinks and out of the way. They are especially valuable in places where low head room is at a premium and where the compact design of the reel unit permits easy installation.

The hose furnished is a durable, 2-braid hose suitable for average conditions. It is recommended that paint-fluid hose be used only for paint or fluid installations as air service is usually severe on the specially compounded rubber necessary for paints and oil solvents.

The hose outlet is adjustable and should be so set that the hose does not drag around the rollers when mounted on the wall or ceiling.

Type CA and CF Air and Fluid Reels*
Furnished Complete with 25 ft. of Hose

Cat. No.	Service	Inside of Hose I.D.	Inside of Hose O.D.	Shpg. Wt. Lbs.
CA-11	Air	¼"	$\frac{9}{16}$"	27
CA-22	Air	⅜"	$\frac{47}{64}$"	32
CF-22	Fluid Paint†	⅜"	$\frac{11}{16}$"	32



Type "CF" Type "CA"

DIMENSIONS IN INCHES

Cat. No.	A	B	C	E	F	G	H
CA-11	9	6½	8¼	13½	2½	4⅜	3⅝
CA-22	9	6½	8¼	13½	2½	6⅜	3⅝
CF-22	9	6½	8¼	13½	2½	6⅜	3⅝

†This hose has proper outside diameter for DeVilbiss fittings.

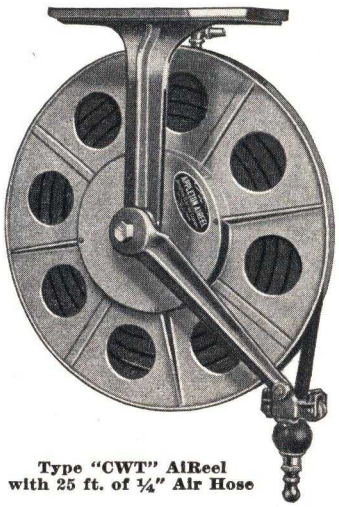
*If constant tension is unnecessary, reels will be equipped with ratchet device at no extra cost. A slight jerk on the hose line allows the hose to be drawn in. Orders must specify if ratchet is desired. Ratchets can be used only with ceiling installations.

Schedule "RE" Discounts—Group 3

ADJUSTABLE TYPE AIREEL

FOR PNEUMATIC TOOL APPLICATIONS

Types CWT and CTL—Air Pressure: 150 Lbs. Max.



Type "CWT" AiReel with 25 ft. of ¼" Air Hose

Tangled and twisted air hose cause waste, inefficiency, and accidents. The CWT and CTL open style, industrial AiReels automatically wind and maintain constant tension on air hose lines of portable air-driven tools.

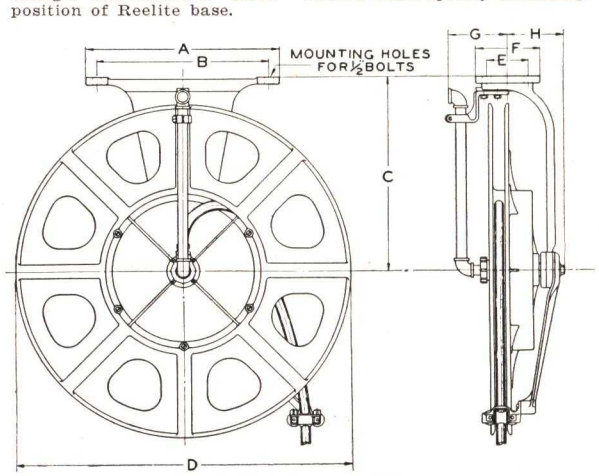
The AiReel can be mounted well up and out of the way, either on the ceiling or wall. The outlet support arm is adjustable and should be set so that the air hose is drawn through the rollers with a minimum of friction.

The swivel air joint is positive, self-adjusting, and requires no attention. AiReels are equipped with strong, closely braided, extra flexible air hose which has ample strength to withstand high pressures and pulsating loads.

Furnished complete with two braid air hose.

Cat. No.	Size of Hose I.D.	Size of Hose O.D.	Length of Hose in Feet	Shipping Weight Pounds
CWT-11	¼	¾	25	70
CWT-21	⅜	$\frac{47}{64}$	25	75
CWT-31	½	$\frac{29}{32}$	25*	75
CTL-31	½	$\frac{29}{32}$	50	100
CTL-41	¾	$1\frac{13}{64}$	50	110

RATCHET—For installations where constant tension is not desired, a gravity-type ratchet may be furnished at extra charge. See Schedule "CDR." Orders must specify mounting position of Reelite base.



DIMENSIONS IN INCHES

Cat. No.	A	B	C	D	E	F	G	H
CWT-11	11	9	11¾	19½	4	5½	3½	3¾
CWT-21	11	9	11¾	19½	4	5½	3½	3¾
CWT-31	11	9	11¾	19½	4	5½	3½	3¾
CTL-31	18	16	18	30¾	4	6	5½	5⅛
CTL-41	18	16	18	30¾	4	6	5⅞	5⅛

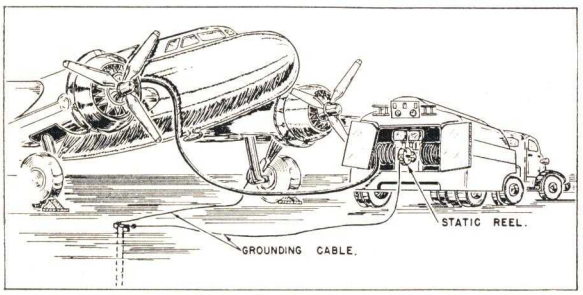
*Only 20 feet of hose are wound on reel drum; five feet of hose remain outside.

Schedule "RE" Discounts—Group 3

APPLETON GROUNDING REELS

FOR STATIC DISCHARGE AND SAFETY GROUNDING

During Refueling Operations



Grounding Static Charges — The generation of static charges on servicing equipment during the transfer of combustible fuels is exceedingly difficult to prevent. Every precaution should be taken to eliminate the possibility of fire or explosion due to discharge sparks in the presence of inflammable fuels or vapors. Generally, the resistance of hard-surfaced servicing areas has been found to be relatively high and the use of static ground chains is no longer considered adequate to safely discharge accumulated potentials.

Grounding Methods—The prime requisite in designing a safe static discharge system lies in a good low-resistance ground. Ordinarily, water pipes, metal framework of building, underground gas piping systems are considered safe and effective for use as grounding connections. In open areas such as airports, tie-down or mooring rings can also be used providing they are embedded in concrete piers.

Where absolute safety is required, and where mooring rings or other grounding devices are not available, a galvanized iron, steel, or copperweld steel rod or pipe about four to eight feet long should be used. This should be driven into ground to reach below the permanent ground moisture level.

Static Grounding Reels—Where longer grounding cables are used, automatic spring-operated, takeup reels are recommended. They maintain a light constant spring tension on the grounding cable and eliminate the danger of accumulated charges and tangled wires. Reels are furnished in natural metallic finishes thereby permitting a good grounding connection between base of reel and grounding member of servicing equipment. These reels are also useful in large area airplane hangars to provide convenient grounding points for aircraft in storage especially where fuel tanks are filled or where periodic maintenance operations are carried on.

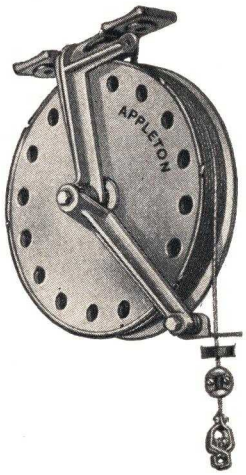
Portable Electrical Equipment — All portable electrical equipment including extension lights used in areas where volatile fuels are handled, should be provided with an extra wire for safety grounding. The No. 1530 automatic take-up Reelite, equipped with 3-conductor cord provides the necessary safety of operation and eliminate unnecessary cord maintenance. In areas where hazardous atmospheres are present, special Reelites of the explosion-proof type are also available.

●See Price List

APPLETON GROUNDING REELS

FOR STATIC DISCHARGE AND SAFETY GROUNDING

During Refueling Operations



TYPE "SD" STATIC REEL

The Type "SD" Static Discharge Reel is an all-cast reel assembly furnished complete with $\frac{3}{32}$-inch flexible aviation control cable, rubber bumper, cable clamp, and a Universal spring jaw battery clip. An adjustable outlet permits pendant, wall, or upright mounting. Reel is finished in natural metallic to permit positive grounding at all points of contact.

Ratchet — For installations where constant tension is not desired, a gravity-type ratchet may be furnished at extra charge of **$1.00.** Orders must specify mounting position of Reelite base.

Cat. No.	Cable Length Feet	Dimens., Inches — Diameter	Overall Width	Shpg. Wt. Lbs.	Price Each
SD-1	40	13½	5⅞	24	●
SD-2	80	13½	6¾	32	●

PORTABLE STATIC REEL



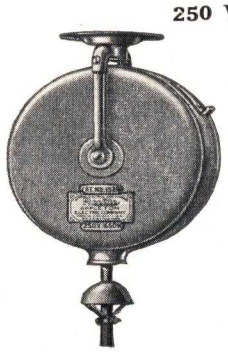
Light-duty reel of stamped steel construction and mounted on a cast base. Furnished with 40 feet of $\frac{3}{32}$-inch flexible aviation control cable, rubber bumper, cable clamp, and Universal spring jaw battery clip. Base will fit standard mounting centers of 4-inch octagonal outlet box and may be mounted horizontally or vertically. Finish in grey enamel and natural metallic base.

Diameter 7¼ inches; overall width 4½ inches.

Cat. No.	Cable Length	Wt. Lbs. Per Doz.	Price Each
1531	40 ft.	100	●

PORTABLE GROUNDING REEL*

250 Volts, 600 Watts



For use with portable extension lamp holders or light-duty single phase electrical tools. Furnished with 25 ft. of No. 16-3 conductor rubber cord, one conductor of which is grounded to frame of reel. Adjustable cord stop. Finish in grey enamel with cadmium plated hangers and cover plate. Cover plate fits all 3¼ and 4-inch octagonal outlet boxes. Furnished with ratchet stop to hold spring tension.

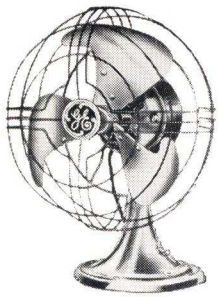
Cat. No.	Length Feet	Diameter	Overall Width	Wt. Lbs. Per Doz.	Price Each
1530	25	7¼	4½	95	●

*No. 1538 Wall Bracket available at extra cost.

●See Price List

G-E FANS

10-INCH MEDIUM SUPERQUIET FAN

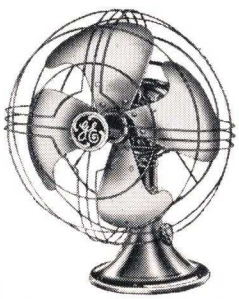


Exclusive Vortalex blades designed for large air delivery at low noise levels. Clutch stem instantly changes fan from oscillating to non oscillating service. Mist-gray finish. Self-aligning, ball-seat, porous-metal bearings. Streamlined blade guard. Wing-nut tilting adjustment. Two-speed toggle switch. Felt-covered base.

Air Delivery—Volume, 715 cfm; maximum velocity, 1100 fpm.

Cat. No.	Voltage	Cycles	Watts	Noise Level	Price Each
FM10V41	110/120	60	50	44 Db	**$27.95**

12-INCH LARGE SUPERQUIET FAN

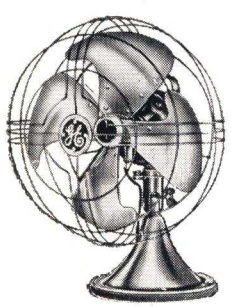


Oscillating — Vortalex blades designed for large air delivery at low noise level. Three-speed rotary switch in base. Mist-gray finish. Self-aligning, ball-seat, porous-metal bearings sealed against oil leakage. Streamlined blade guard, spot-welded for added strength. Convenient carrying handle. Tilting adjustment.

Air Delivery—Volume, 1200 cfm; maximum velocity, 1700 fpm.

Cat. No.	Voltage	Cycles	Watts	Noise Level	Price Each
FM12V41	110/120	60	85	50 Db	**$41.95**

16-INCH MASTER SUPERQUIET FAN



Oscillating — General Electric's most powerful desk fan. Exclusive Vortalex blades. Self-aligning, ball-seat, porous-metal bearings for lifetime wear. Mist-gray finish. Streamlined blade guard. Thumb-nut tilting adjustment. Convenient carrying handle. Felt base covering prevents marring polished surfaces. Clutch stem instantly changes fan from oscillating to non oscillating.

Air delivery—Volume, 1700 cfm; maximum velocity, 1400 fpm.

Cat. No.	Voltage	Cycles	Watts	Noise Level	Price Each
FM16V21	110/120	60	64	50 Db	**$49.95**

G-E FANS

12-INCH LARGE SUPERQUIET PEDESTAL FAN



General Electric Superquiet pedestal oscillating fan. Power-laden Vortalex blades silently put the air in motion. Four-point switch controls air delivery ranging from a gentle breeze to a strong, forceful air movement.

Self-aligning, ball-seat, porous-metal bearings sealed against oil leakage. Modernistic blade guard. Mist-gray finish. Telescoping pedestal permits height adjustments ranging from 40 to 61 inches. Cord passes down through column—no loop or dangling wires. Antitip base with rubber feet.

Air delivery—volume, 1200 cu. ft. per minute; velocity, 1700 ft. per minute. Approximate operating cost, 2/5 cents per hour; based on five cents per kilowatt-hour.

Cat. No.	Voltage	Cycles	Watts	Noise Level	Price Each
FM12M41	110/120	60	85	50 Db	**$59.95**

24-INCH SUPERQUIET AIR CIRCULATOR



The efficient smartly designed General Electric Air Circulator is recommended wherever controlled air circulation at low cost is needed. Attractive in appearance this model has found wide favor in commercial establishments and large offices.

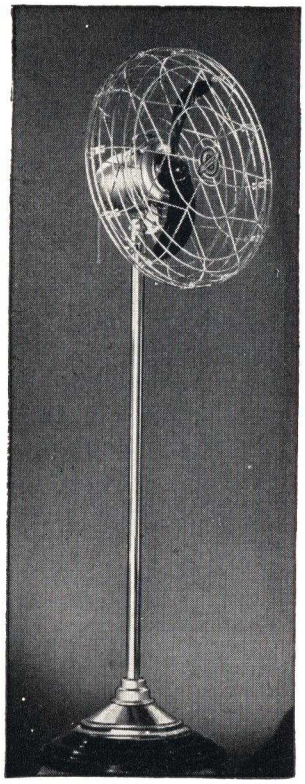
Velocity and quantity of air driven is great, yet noise level remains low because of the exclusive Vortalex blades. Chrome grill, upper column and base ornament blended with Hammertone mist-gray finish on motor shell and base. Three-speed, pull type switch provides instant control of fan's operation. Telescoping column permits height adjustments ranging from 5 ft. to 8 ft. 6 in. Cord passes down through column — no looped or dangling wires.

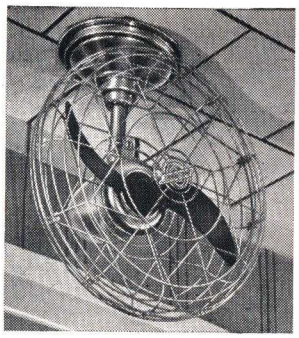
Air delivery—volume, 5000 cu. ft. per minute; velocity, 1900 ft. per minute. Approximate operating costs, 1⅛ cents per hour; based on five cents per kilowatt-hour.

Cat. No.	Voltage	Cycles	Watts	Noise Level	Price Each
FM24M21	110/120	60	165	63 Db	**$119.95**

FRESH'ND-AIRE CIRCULATOR

Fresh'nd-Aire for the Home





Fresh'nd-Aire circulator, successor to the fan, provides scientific overall no-draft air circulation for every home cooling requirement. It has a twenty-four hour utility for the average home, for in addition to its daytime uses, Fresh'nd-Aire is ideal for night cooling. Three models, the 14, 17 and 20 — provide healthful circulation summer or winter.

Fresh'nd-Aire Circulators are ideal for night cooling. When placed in front of a bedroom window, Fresh'nd-Aire forces the stale air out of the house and draws cool night air through other open windows, thus equalizing inside and outside temperatures.
Fresh-nd-Aire Speed Control, an exclusive feature, shows instantly on a visual dial the speed being used. Just a flick of the switch does it. Smaller models have three speeds — larger models five speeds plus on and off switch.

Induction Type Motor

Prop. Size and Model No.	Speeds	Approx. CFM Rating	Speeds RPM 115 Volt 60 Cycle	Approx. Shipping Weight: Low Stand Model	Approx. Shipping Weight: High Stand Model	List Pr. Complete (Incl. 10% Fed. Excise Tax): Low Stand Model*	List Pr. Complete (Incl. 10% Fed. Excise Tax): High Stand Model*
1400	3	2000	1600 1200 800	25 lbs.	50 lbs.	**$51.98**	**$69.31**
1700	3	4000	1600 1200 800	26 lbs.	51 lbs.	**62.48**	**79.81**
2000	3	6000	1600 1200 800	35 lbs.	75 lbs.	**72.98**	**98.18**

*Motors are 115 volt, 60 cycle. Write for prices on motors of other specifications.

Fresh'nd-Aire for Industry

Fresh'nd-Aire models 23, 26 and 35 deliver a great volume of air uniformly, quietly, without draft. All models adaptable for low stand, high stand, wall or ceiling installation. For commercial establishments Fresh'nd-Aire brings added customer comfort — increased store traffic. In industries Fresh'nd-Aire keeps air healthfully fresh — increases employee efficiency.

Induction Type Motor

Prop. Size and Model No.	Speeds	Approx. CFM Rating	Speeds RPM 115 Volt 60 Cycle	Approx. Shipping Weight: Low Stand Model	Approx. Shipping Weight: High Stand Model	List Pr. Complete (Incl. 10% Fed. Excise Tax): Low Stand Model*	List Pr. Complete (Incl. 10% Fed. Excise Tax): High Stand Model*
2300	3	8000	1600 1200 800	37 lbs.	77 lbs.	**$83.48**	**$108.68**

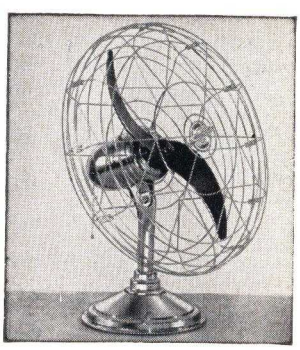
Capacitor Type Motor

2600	5	12000	1600 1400 1200 1000 800	60 lbs.	110 lbs.	**118.15**	**145.45**
3500**	5	17000	1100 1000 850 700 550	90 lbs.	155 lbs.	**152.25**	**190.05**

*Motors are 115 volt, 60 cycle. Write for prices on motors of other specifications.

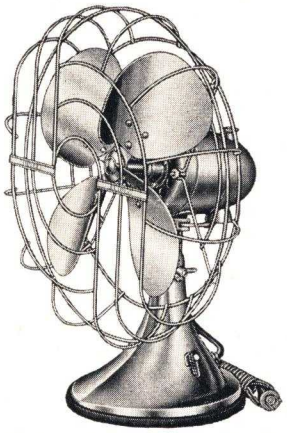
**Model 3500 must be ordered specifically for low stand, high stand, wall or ceiling installation.

Prices and specifications subject to change, correction or improvement without notice.



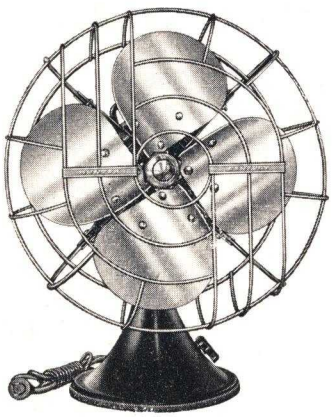
Fresh'nd-Aire Mountings are adjustable to any position, horizontally or vertically. Low stand base becomes attractive wall mounting when desired.

HUNTER DELUXE ZEPHAIR and STREAMLINAIR FANS



12-Inch Streamlinair—No. 25

12-Inch Streamlinair No. 25—Oscillating; 2-speed; black satin finish with polished aluminum Streamlinair blade; udylite guard. 1 Year Guarantee.



12-Inch Zephair—Nos. 75, 235, 265

Zephair streamlined quiet oscillating fans have polished aluminum blades and bright sturdy udylite guards. The motor cases are of heavy pressed steel. The gears are grease packed fully enclosed. Motor and base in soft black satin finish. 16-inch model No. 265 equipped with capacitor motor.

Desk and Wall Types

Streamlinair and DeLuxe Oscillators

115 Volts, 60 Cycles

Cat. No.	Size In.	Style	Speeds	RPM	Watts	CFM	Price Each
75	10	Zephair	2	1300	55	690	**$27.95**
25	12	Streamlinair	2	1300	64	875	***32.95**
235	12	Zephair	3	1400	62	1150	**41.95**
265	16	Zephair†	3	1040	60	1700	**49.95**

*1 Year Guarantee; all others, 5 Year Guarantee.

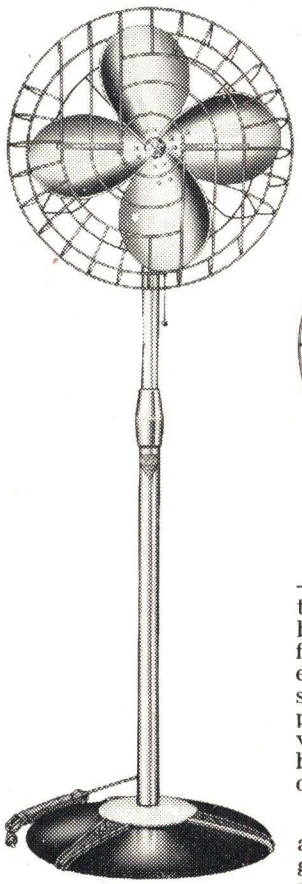
†Has capacitor type motor.

All fans carry Underwriters' Labels.

Prices Subject to Federal Excise Tax

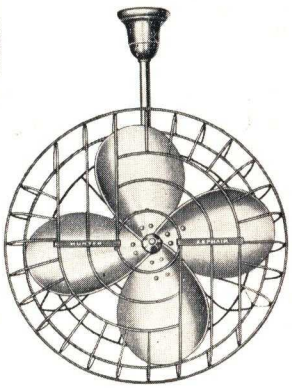
HUNTER ZEPHAIR FANS

24-INCH CAPACITOR ZEPHAIR AIRSPREAD FANS—5 YEAR GUARANTEE



Capacitor 24-Inch Adjustable Pedestal Fans

24-Inch Ceiling Type
(Hanger Rod not included)



Motor Capacitor Type—Low current consumption, continuous duty, bright silver sprayed finish. Motor is suspended in special Hunter designed rubber cushions—providing floating power with silencer effect—may be tilted upward or downward.

Ball Bearings—Front and rear double-sealed grease-packed—built to run without additional lubrication for years.

Zephair Blades — Aluminum, 24-inch diameter, shaped to provide even distribution of air and prolong life of motor. Bright udylite modernistic design chip-proof guard.

Pedestal Column—Made of large size seamless steel tubing, adjustable between 5 feet and 8 feet—upper column plated in heavy durable chromium.

Base—Black baked-wrinkle finish with chromium plated cap—highly ornamental appearance. Designed with special inside rubber insulation to prevent vibration—balanced to insure safety with portability.

Pedestal and Counter Types—Equipped with 15-foot Underwriters' approved rubber cord and plug.

115 Volts, 60 Cycles—Two-Speed

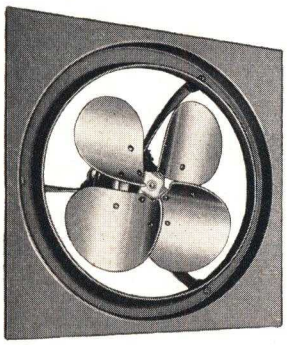
Cat. No.	Type	Watts High	Watts Low	R.P.M. High	R.P.M. Low	Shpg. Wt. Lbs.	Price Each
142	Ceiling	210	150	1140	840	52	**$94.50**
242	Pedestal	210	150	1140	840	119	**119.95**
342	Counter	210	150	1140	840	70	**104.50**

All models available with Super Safety Guard, add **$9.88.**

Prices Subject to Federal Excise Tax

HUNTER EXHAUST FANS

SQUARE MOUNTING FRAME



Features include: Capacitor type motor; Hunter design deep orifice; square, easy mounting frame; fully enclosed motor; heavy-duty bearings; three supporting arms mounted in rubber; switch furnished with 2-speed fans; durable green finish; equipped with wires for connection; for vertical or horizontal operation.

Two-Speed, Ball-Bearing Exhaust Fans

115 Volts 60 Cycles, Single Phase

Cat. No.	Size Fan	H.P.	High Speed Watts	Amps.	RPM	CFM	Price Each
1212	12″	1/50	48	.52	1450	1100	**$47.75**
1216	16″	1/25	60	.75	1040	1650	**57.75**

Single Speed, Medium Heavy Duty Sleeve-Bearing Exhaust Fan, 115 Volt, 60 Cycle, Single Phase

8118*	18″	⅛	150	1.5	1100	2800	**89.50**

*Sleeve-bearing types are made to operate with motor shaft in horizontal position only.

HUNTER AUTOMATIC SHUTTERS



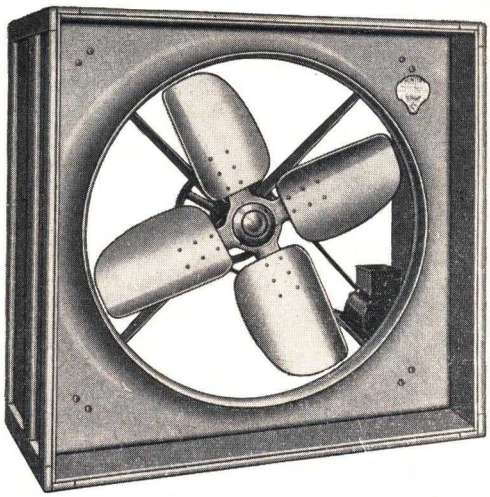
For Fan Cat. No.	Shutter Size, Inches (Daylight Opening)*		Outside Dimens. in Inches	Wt. Lbs. Packed	Price Each
1212	12	12 x 12	14½ x 14½	7	**$14.00**
1216	16	16 x 16	19 x 19	11	**18.50**
8118	18	18 x 18	21 x 21	13	**21.00**

*Add 3 inches for overall dimensions.

Prices Subject to Federal Excise Tax

HUNTER ZEPHAIR COOLING UNITS

BELT DRIVEN EXHAUST FANS



Mechanical Details for All Sizes

1. V-Belt Drive—insures long life—quiet operation.
2. Adequate instructions—most efficient methods of installation.
3. Century ball bearing motors—insure many years of trouble-free service.
4. Thermal overload protection prevents burned out motors in case of low voltage or overload.
5. Zephair heavy gauge, die-formed steel blades give uniform air velocity over entire blade area.
6. One-piece streamlined orifice—design increases air delivery—reduces power consumption.
7. Blade hub—cast iron, accurately machined to fan shaft.
8. Entire blade assembly statically balanced, assuring vibrationless running.
9. Blade shaft mounted on ball bearings—absorb thrust load—permit operation in any position.
10. Mounting arms offer minimum obstruction to air flow—absorb vibration.
11. Rugged construction and extra powered motor assure continuous uninterrupted service.
12. Protective Service Guarantee. Fan Unit—5 years. Motor—1 year.

Shipping Crate designed for use in installation — minimizes installation expense — crate easily removable for special application.

All fans have Underwriters' Laboratory label.

Single Speed Units

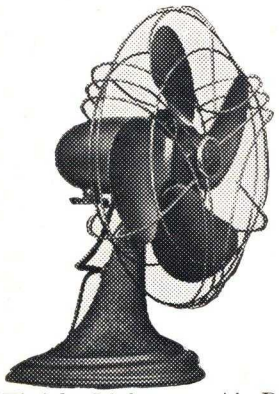
115 Volts, 60 Cycles

Cat. No.	Size In.	C.F.M.	H.P.	R.P.M.	Overall Dimens.	Price
50-AXB	24	5,100	1/6	570	34x34x18	**$128.00**
75-BXB	30	7,500	¼	420	42x42x19	**149.50**
10-DXB	36	11,400	⅓	360	48x48x20	**179.50**
14-FXB	42	16,000	½	340	54x54x25	**224.00**
18-HXB	48	20,000	½	295	60x60x25	**258.00**
18-HXB-3	48	22,500	¾	330	60x60x25	**278.00**

42 and 48-inch sizes also available for 230 volts, 60 cycle, single phase.

SIGNAL FANS

No. 1049 ONE-SPEED 10-INCH COOLSPOT OSCILLATOR FAN

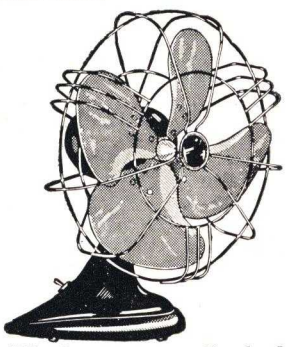


This is a streamlined, single-speed oscillating fan. Oscillator is fully enclosed. Bronze, porous composition bearings are oilless type, self aligning with wool-packed oil reservoir.

Induction type motor, 2-pole, non-radio interfering, 50-60 cycle, 110-120 volts. One speed rotary switch in rear motor housing. Underwriters' approved, 6 ft. rubber covered cord. Finish: Light tan. Air Delivery: 600 cubic feet per minute. Packed one to a carton; shipping weight 9 lbs.

Price, No. **1049** 1-Speed, 10-Inch Coolspot Oscillator .....each **$13.97**

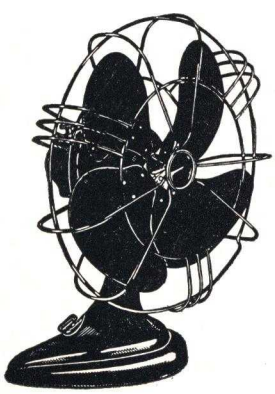
No. 562 ONE-SPEED 10-INCH COOLSPOT OSCILLATOR FAN



This streamlined, single-speed fan delivers 700 C.F.M. Oscillating unit, adjustable for oscillating or non-oscillating operation, is fully enclosed. Porous, bronze composition bearings are oilless type, self-aligning with wool-packed oil reservoirs. Non-radio interfering, induction type motor, 50-60 cycle, 110-120 volts. Finished in opalescent Windsor green. Packed one to a carton; shipping weight, 11 lbs.

Price, No. **562** 1-Speed, 10-Inch Coolspot Oscillator .....each **$19.70**

No. 361 THREE-SPEED, 12-INCH COOLSPOT OSCILLATOR FAN



Features of this streamlined model are 3-speed rotary type switch, fully enclosed oscillating unit which is adjustable for oscillating or non-oscillating operation; and, self-lubricating and self-aligning bearings with wool-packed oil reservoirs. The unit delivers 800 C.F.M.

Induction motor, 4-pole, non-radio interfering, 50-60 cycle, 110-120 volts. Black wrinkle finish with bright polished guard. Packed one to a carton; shipping weight 17 lbs.

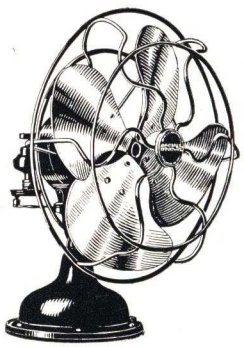
Price, No. **361** 3-Speed, 12-Inch Coolspot Oscillator .....each **$28.25**

Prices include Fed. Excise Tax.

SIGNAL FANS

No. 450-A 2-SPEED, 10-INCH OSCILLATOR FAN

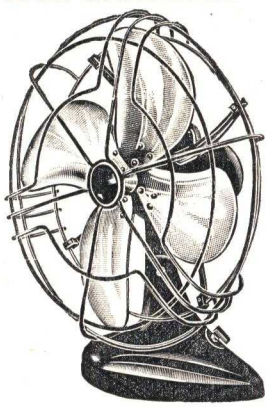
For A.C. or D.C.



Built for either A.C. or D.C. operation this fan has chrome-plated blades, 2-speed lever type switch in base, and delivers 740 C.F.M. Unit is adjustable for oscillating or non-oscillating operation; has self-lubricating and self-aligning bearings with wool-packed oil reservoirs; durable black baked enamel finish. Universal motor operates on 110-120 volt D.C. or A.C., 0-60 cycle. Packed one to a carton; shipping weight 9¾ lbs.

Price, No. **450-A** 2-Speed, 10-Inch Oscillator Fan .....each **$29.77**

No. 1251 3-SPEED, 16-INCH OSCILLATOR



This deluxe, streamlined fan features the 3-speed rotary type switch, self-lubricating sleeve bearings with wool-packed oil reservoirs. Fully enclosed oscillating unit is adjustable for 80 degree angle of oscillation or non-oscillating operation. Finish, durable black baked enamel. Air delivery, 1500 C.F.M. Packed one in a carton; shipping weight, 33 lbs.

Price, No. **1251** 3-speed, 16-Inch Oscillating Fan .....each **$39.90**



No. P-1251 16-INCH PEDESTAL MODEL

This popular model has the same outstanding features as the No. 1251. It is mounted on a sturdy, vibration-free floor stand, adjustable from 4 ft. 6 in. to 7 ft. 6 in., floor to center of fan.

Has induction type motor, non-radio interfering, for operation on 50-60 cycle, 110-120 volts. Pull type, 3-speed switch in rear motor cover. Oscillator is enclosed in rear motor housing; control knob permits fan to be locked in any position within arc of oscillation. Air delivery, 1500 cubic feet per minute.

Finish, blue-grey wrinkle with nickel plated adjustable column, bright guard and polished chrome blade. Shipping weight 67 lbs.

Price, No. **P-1251** Pedestal Oscillating Fan **$56.70**

SIGNAL AIR CIRCULATOR

No. CF-24 3-SPEED PEDESTAL MODEL



This streamlined pedestal model equipped with safe-locking wing nuts, provides selected angle of operation anywhere from vertical to 15 degrees below horizontal. Rubber mounted, non-radio interfering motor features oilless-type, self-aligning bearings and delivers 3500 C.F.M.

Has 4-pole, non-radio interfering, rubber mounted induction type motor for operation on 110-120 volts, 50-60 cycles. Three-speed, pull type switch mounted in rear motor housing.

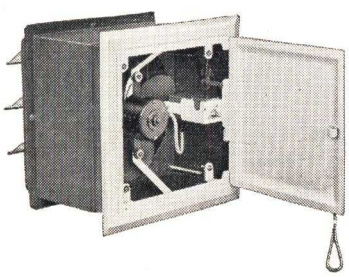
Finish: Motor black baked enamel; base and stationary column, black wrinkle; adjustable column and blade, nickel plated.

Packing: Motor, guard and blade assembled and in one carton. Adjustable column, yoke and stationary colum in one carton, base in one carton. Shipping weight, 70 lbs.

Price, No. CF-24 Air Circulator....**$89.25**

Price includes Fed. Excise Tax.

SIGNAL WALL BOX VENT FAN



Outside shutter is cast aluminum with automatic lever operated shutters. The totally enclosed motor is rubber mounted and can be disconnected or removed for cleaning. Motor switch and shutters are controlled by opening and closing of the door. Two types adjustable to wall thicknesses — 6 to 11½ inches or 13 to 24 inches. 110-120 volts A.C.; 60 cycles; watt imput, 40; C.F.M. in free air, 650; R.P.M., 1400.

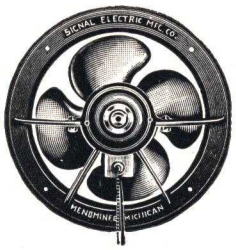
Inside baked white enamel, shutters chrome, balance brown.

Cat. No.	Fan In.	Adjustable to Wall Thickness, In.	Shpg. Wt. Lbs.	Price Each
V-50A	10	6 to 11½	22¾	**$31.50**
V-52A	10	13 to 24	45	**35.18**

Above prices include Federal Excise Tax.

SIGNAL VENT AND EXHAUST FANS

RING TYPE VENT FAN



For installation where weight must be considered this vent fan is recommended. Can be mounted on wall board. Cast iron mounting ring; quiet type 10-inch chrome plated fan blade and on-and-off switch.

Cat. No.	Voltage	C.F.M.	Watts	Shpg. Wt. Lbs.	Price Each
V-105	110 A.C.	600	50	10	**$19.95**
V-106	115 Uni.	680	65	10	**25.20**

Above prices include Federal Excise Tax.

CHALLENGER VENT FAN



These streamlined ventilating fans are value-plus. They are modernly different, efficient and dependable, and outstandingly low in cost. Characteristics usually identified only with those in much higher price brackets are found on these fans. The square frame of heavy gauge sheet steel is easy to mount and holds the motor securely. Motor is totally enclosed and equipped with adjustable conduit box. Motor and frame are black wrinkle finish and the fan blade is chrome plated. Lends itself well to wall, window and transom installations. Operates horizontally or vertically.

Cat. No.	Size Inches	Voltage and Cycles	C.F.M. in Free Air	Watts	Shpg. Wt. Lbs.	Price Each
V-510	10	110 A.C. 60	650	40	9	**$12.60**
V-512	12	110 A.C. 60	900	50	15	**16.80**
V-516	16	110 A.C. 60	1400	90	26	**25.20**

Above prices include Federal Excise Tax.

THREE-SPEED CONTROLLERS



For SIGNAL bucket and flat blade vent fans. Reduces high speed approximately 20 per cent. Two types for surface or flush mounting. Black wrinkle finish.

For Vent Fans

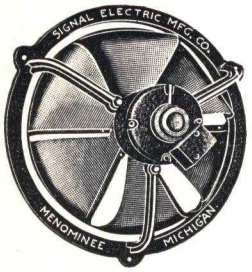
Cat. No.	For Fan No.	Shpg. Wt. Lbs.	Price Each
SXS-13	V-510	3	**$5.70**
SXF-13	V-510	3	**5.70**
SXS-14	V-512	3	**5.70**
SXF-14	V-512	3	**5.70**
SXS-15	V-516	3	**5.70**
SXF-15	V-516	3	**5.70**
SXS-26	V-105	3	**5.70**
SRS-7	V-106	3	**6.25**

For Exhaust Fans

Cat. No.	For Fan No.	Shpg. Wt. Lbs.	Price Each
SXS-3	V-312	3	**$5.70**
SXF-3	V-312	3	**5.70**
SRS-3	V-412	3	**6.25**
SRF-3	V-412	3	**6.25**
SXS-1	V-316	4	**6.60**
SXF-1	V-316	4	**6.60**
S-31	V-416	3	**8.50**
SXS-4	V-318	4	**6.60**
SXF-4	V-318	4	**6.60**
S-32	V-418	3	**8.50**

SIGNAL VENT AND EXHAUST FANS

BUCKET BLADE BALL BEARING EXHAUST FAN



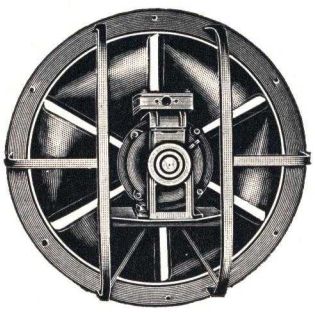
For commercial installations. Motor is shaded pole, induction type, fully enclosed, equipped with high grade ball bearings. Frame is cast reinforced iron. Motor cast, adjustable conduit box. Black wrinkle finish.

Size		110 V. A.C.			115 V. D.C.		
In.	C.F.M.	Cat. No.	R.P.M.	Price Each	Cat. No.	R.P.M.	Price Each
12	825	V312	1000	$31.50	V412	1000	$38.85
16	1500	V316	1150	48.30	V416	1280	58.80
18	2200	V318	1100	57.75	V418	1150	65.10

Above prices include Federal Excise Tax.

BUCKET BLADE BALL BEARING EXHAUST FAN

Powered by a heavy duty ball bearing, ¼ H.P. capacitor motor, this 24-inch, 2-speed fan is rubber mounted and will operate in any position because of the special thrust-type ball bearings. Finish of fan is black lacquer with motor and mounting ring black wrinkle. Snap switch included with single-phase fans.



Also available for three-phase and D.C.

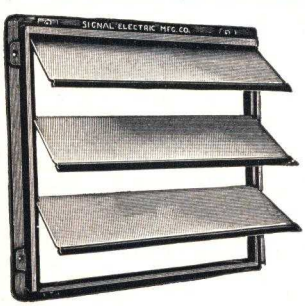
A.C. — 2 Speed — One Phase — Ball Bearing Rubber Mounted

Cat. No.	Speed R.P.M.	C.F.M.	Volts	Cy.	Shpg. Wt.Lbs.	Price Each
V-124	830-640	4000-3400	110	60	135	$174.30
V-124X	710-575	3400-2800	110	25	135	181.92
V-124Z	830-640	4000-3100	220	60	135	176.40

V-124 110/220 volt winding — On 220 speed is 830 R.P.M.
V-124X 110/220 volt winding — On 220 speed is 710 R.P.M.
V-124Z 220/440 volt winding — On 440 speed is 830 R.P.M.

Above prices include Federal Excise Tax.

SIGNAL AUTOMATIC SHUTTERS

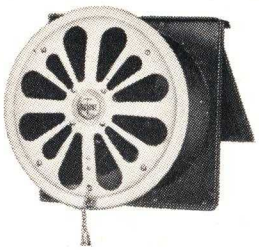


Designed for use with Signal Exhaust and Vent fans. Provide protection to the fan opening when fan is not operating. Frame is cast iron gray finish and steel shutter vanes are to match. The vanes, fastened to a tie-rod, operate together. Shutters operate automatically.

Cat. No.	Size In.	Shpg. Wt.Lbs.	Price Each	Cat. No.	Size In.	Shpg. Wt.Lbs.	Price Each
L-10	10	7½	$6.20	L-18A	18	23	$13.25
L-12A	12	11	7.10	L-24	24	35	20.00
L-16A	16	18	9.40	.....	....	....	.....

NuTone VENTILATING FANS

8 AND 10-INCH WALL TYPE VENTILATING FANS



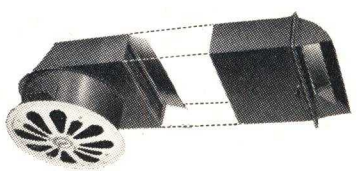
NuTone Ventilating Fans will give years of quiet, trouble-free operation. Large capacity clears kitchen of odors, greasy fumes and dirt by completely changing air every few minutes. Helps cool during hot summer months. Weather shutter operates automatically when fan is started and stopped by beaded pull-chain. During winter, if shutter ices shut from sleet, etc., fan defrosts ice seal by circulating warm room air in shutter box. Shutter opens as ice melts. Can be installed in any type of wall. White baked enamel grille with motor and blade attached.

Quiet, induction type motor, operates on 110-125 volt, 60 cycle A.C. No radio or television interference. Listed by Underwriters' Laboratories.

Model No. NV-18—8-inch Blade—Fits walls 4¾ to 8⅛ inches thick. (Standard sleeve.)
Model No. NV-18L—8-inch Blade—Fits walls 6¼ to 11 inches thick. (Long sleeve.)
Model No. NV-110—10-inch Blade—Fits walls 4¾ to 8¼ inches thick.

Model No.	Dimensions in Inches: Grill Diam.	Outside Panel	Wall Opening	Blade Size	C.F.M.	Speed R.P.M.	Shpg. Wt. Lbs.
NV-18	11½	10⅝x10⅝	9	8	600	1500	10
NV-18L	11½	10⅝x10⅝	9	8	600	1500	11
NV-110	12½	12⅝x12⅝	11¼	10	700	1600	14

10-INCH CEILING VENTILATING FAN



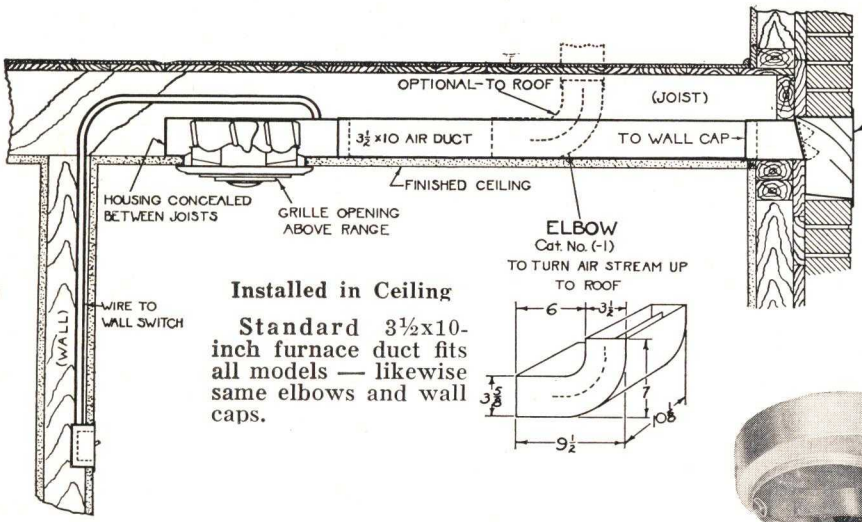
NuTone ceiling-type fan is particularly adaptable to kitchens with limited wall space or if wall installation is impractical. Constructed for long years of dependable operation. Two self-acting shutters open and close when fan is started or stopped. This prevents any heat loss or cold air back draft from outside. Shutters form weather-tight seal on sponge rubber seats. Wall switch operated.

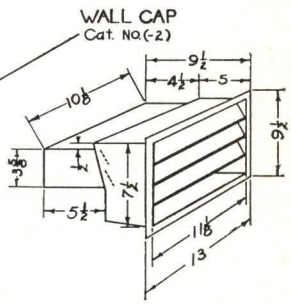
Ceiling grille is made of heavy drawn steel finished in white baked enamel. Sleeves and exterior hood finished grey baked enamel. Quiet, induction-type motor operates on 110-125 volt 60 cycle A.C. 42 watts. Wiring: Adapted to BX or conduit. Motor plugs into outlet mounted on sleeve.

Model No.	Dimensions in Inches: Grill Diam.	Ceiling Opening	Wall Opening	Blade Size	Shpg. Wt.Lbs.
NV-110C	12½	11¼	12¼x3⅞	10	16

Blo-Fan—Combination Fan and Blower Type—VENTILATOR

Blo-Fan housing builds into a ceiling between 16-inch centered joists or in a wall between standard 2x4 studs. It is ducted either through the roof (duct and roof jack furnished by others) or out the side wall (duct by others, but wall cap for exterior end of ducts is furnished). It cannot be discharged straight through an exterior wall. In case of a soffit, install fan in ceiling in front of soffit. For No. 206 and No. 208 models electrician must furnish a conventional wall switch. For No. 210 he must provide a 4x4 box with plaster ring for speed control.





Installed in Ceiling

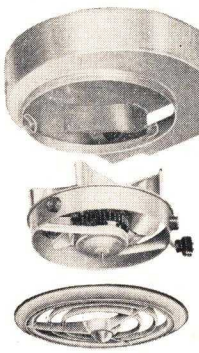
Standard 3½x10-inch furnace duct fits all models — likewise same elbows and wall caps.



Installed in Wall

Since housing requires only 3½ inches of depth behind plaster, it can be installed flush with the face of a wall. Duct may be run either up through the roof or it may be elbowed in the attic to a wall cap.

"Exploded" View



Housing builds in during framing; motor and blade merely snap into place at the finish; and grille — which fits flush with ceiling or wall — screws to the motor assembly by the single large hand knob. No tools required, making removal easy for cleaning.

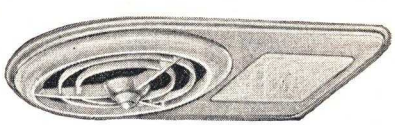
3 SIZES

No. 206—For bathroom, kitchenettes, and other small rooms where 175 cfm of air change will suffice. 38 watts; 1 speed. STANDARD WALL SWITCH REQUIRED.

No. 208—For normal size kitchens, dens, large bathrooms, laundries, small offices, etc. 300 cfm of air change. 58 watts; 1 speed. STANDARD WALL SWITCH REQUIRED.

No. 210—For large kitchens, game rooms, etc. 500 cfm air change. 136 watts; variable speed. Provide a 2-gang DEEP Gem box or a 4x4-inch box with plaster ring for switch and speed control (furnished with fan).

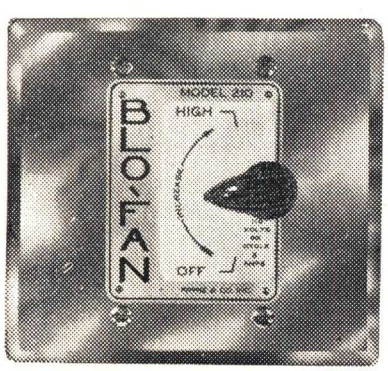
FAN AND LIGHT COMBINATION



Template spacer plate provides space for joist between fan and light. Each unit serviced individually. Light is 100 watts.

"Standard" **208-408** — "DeLuxe" **210-410.**

Merely add light unit to corresponding stock Blo-Fan.



No. 210—9 Speeds

Wall plate for switch and speed control furnished with No. 210 De-Luxe model.

Blo-Fan Specification Data

Model	CFM†	Size, Inches	Speeds	Watts	With Elbows	With Wall Cap	With Light
206 "Junior"	175	11½x13¾x4¼	1	38	206–1	206–2	----------
208 "Standard"	300	14 x16 x4¼	1	58	208–1	208–2	208–408*
210 "De Luxe"	500	14 x16 x4¼	9	136	210–1	210–2	210–410*

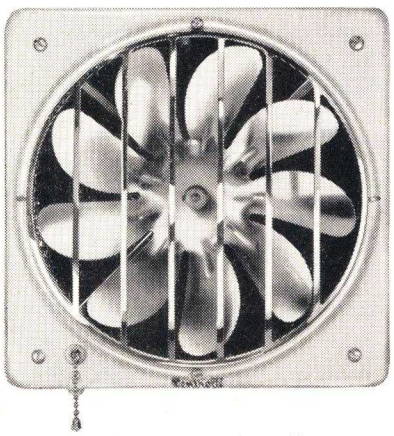
*If elbow or wall cap is desired also, add proper dash number.

†Actual cubic feet per minute discharge thru 10 ft. of duct and a wall cap—NOT "FREE AIR."

VENTROLA VENTILATING FANS

Smart, modern styling — China-white, porcelain-type face finish — beautiful plated grilles — easier cleaning — fully enclosed, static-free, noiseless motors — greater air removal — simple expanding sleeve installation — Underwriters' Laboratory approved.

MODEL No. 50 VENTROLA VENTILATING FAN



Model No. 50—10 inch Size

Model 50—10 inch: Face plate, 12¾ inches square; wall opening, 11$\frac{5}{16}$ inches; capacity in excess of 800 C.F.M. Fan—one piece, 9 blade, rust proof. Motor—induction type, 60 cycle A.C., 110 volt. Weight 18 lbs.

Price, Model No. **50** Ventrola Ventilating Fan (weight 18 lbs.).....**$32.75**
Available in Chrome.....**$2.00** Additional

MODEL No. 40 VENTROLA VENTILATING FAN



Model No. 40—8 inch Size

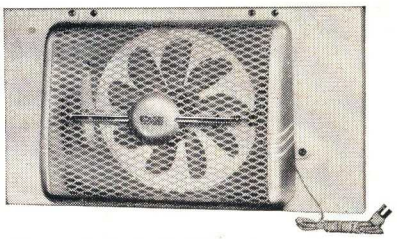
Model No. 40—8 inch: Face plate, 10½ inches square; wall opening, 9$\frac{5}{16}$ inches; capacity in excess of 600 C.F.M. Fan—one piece, 9 blade, rust proof. Motor—Induction type, 60 cycle A.C., 110 volt.

Price, Model No. **40** Ventrola Ventilating Fan (weight, 17 lbs.).....**$28.75**
Available in Chrome.....**$2.00** Additional

PORTABLE REVERSIBLE VENTROLA

10-INCH WINDOW-TYPE VENTILATOR

Model No. 61



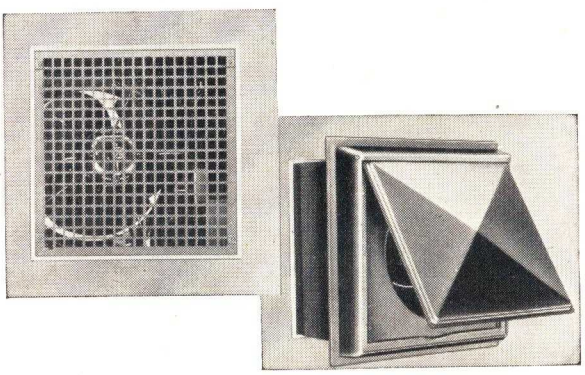
The new Ventrola is light in weight and easily moved from room to room for permanent or temporary use. May be reversed to draw in that cooling breeze for summer "Comfort-Conditioning." Beautifully styled — rugged and dependable. For living room, bedroom, recreation room, office. Easily cleaned. Welded steel construction. Guaranteed one year.

Easy installation with "Ventrolok" feature. 750 C.F.M. capacity. Equipped with switch, plug and cord. Portable. 10-inch diameter 9-blade one-piece fan. 13½ inches high; 25 inches wide, collapsed; 35 inches wide extended. Panels 20 gauge cold rolled steel. Finished in baked enamel and chrome. Self-aligning, induction type motor, 60 cycle, 115 volts A.C. Underwriters' approved.

Price, Model No. **61** Window-Type Ventilator (weight 17 lbs.).....**$29.95**

G-E VENTILATING FANS

WALL CABINET VENTILATING FAN



Outstanding features include: self-aligning, ball-seat, porous-metal bearings; General Electric's overlapping quiet blades; a flexible wire motor mounting to assure silent and vibrationless operation; adjustable wall box, which fits walls ranging from 5½ to 11 inches in thickness; and a solid steel outside door which opens automatically when fan is turned on and closes automatically when fan is turned off.

Wall Switch—Turns fan on and off and opens and closes outside shutter.

Air Delivery—Pressure test method, 500 cfm. Air delivery is sufficient to completely renew the air in the average-sized kitchen in from 2 to 3 minutes.

Finish—Inside wall plate, white enamel. Outside wall plate and door, gray baked enamel.

Cat. No.	Voltage	Cycles	Watts	Shpg. Wt. Lbs.	Noise Level	Price Each
FM10C1	110/120	60	61	42	43 Db	**$49.95**

CHROMALOX UNIT HEATERS—TYPE HF

Blower Type

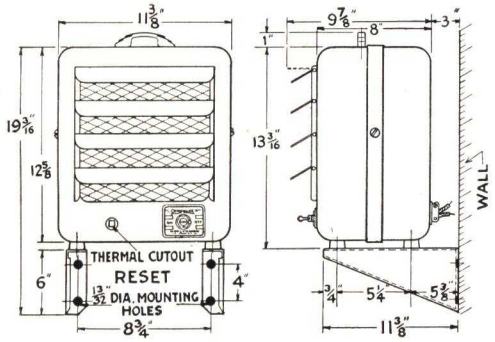
Uses—To heat watchmen's shelters, factory offices, stock rooms, warehouses, wash rooms, substations, airplane hangars, service stations, garages, repair shops, scale rooms, drying rooms, waiting rooms, first aid stations, elevator penthouses and other isolated or hard-to-heat places.

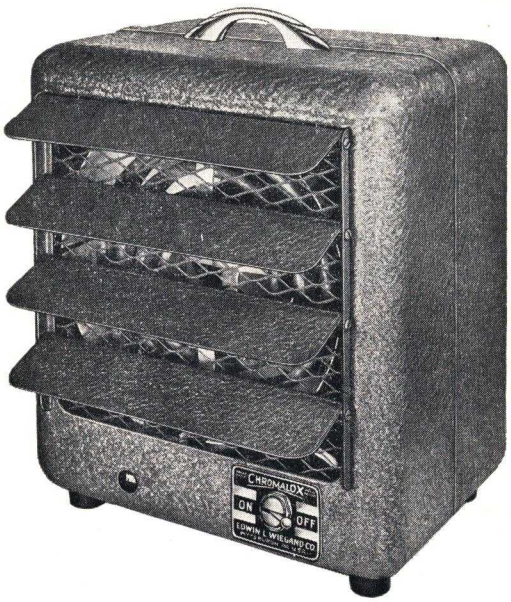
In place of steam heating system for heating offices and rooms in Spring and Fall—operating cost is usually less than cost of steam.

To supplement steam heating in cold weather in rooms inadequately heated.

For temporary heating where portable or easily mounted heater is needed.

Note—These heaters are not designed for use in ovens.





Type HF Unit Heater
Blower Type—Silent Operation

Wall Mounting Brackets—Specify at **$2.60** added to regular price.

Construction—Attractively finished steel heater case is provided with handle and rubber feet or pads for portable use. Brackets are available for permanent wall mounting. Adjustable louvres will direct air in desired direction. Chromalox elements within the heater warm the air drawn in back of the heater and forced out the front by a quiet fan driven by enclosed type electric motor.

1500-watt heaters are supplied with 6 feet of heater cord and attachment plug, approved by the Underwriters' Laboratories, to connect to ordinary outlet. All other sizes are supplied with 6 feet of heater cord approved by the Underwriters' Laboratories.

Automatic Temperature Control—All heaters are equipped with a manual On-Off control switch. For automatic temperature control order a Type WR thermostat.

Protection Against Overloading—A positive acting thermostatic switch automatically opens the heater circuit if normal operating temperatures are exceeded — manually operated reset button will close heater circuit when normal temperatures are restored.

Type HF Chromalox unit heaters are supplied for 115 or 230 volts, 60 cycles, single-phase power supply.

PRICES AND STANDARD RATINGS

For 115 or 230 Volts, 60 Cycles, A.C.

Cat. No.	Kw.	Volts Specify	Btu. Per Hour	Approx. Air Temp. Rise °F.	Approx. Air Velocity FPM	Approx. Shipping Wt. Lb.	Price*
HF-152	1.5	115 or 230	5118	42	105	16½	**$34.30**
HF-202	2.0	115 or 230	6824	45	130	16½	**40.35**
HF-302	3.0	115 or 230	10236	55	160	19	**47.30**
HF-402	4.0	230 Only	13648	75	160	19	**53.55**

*Add 10% Federal Excise Tax to net prices.

MARKEL HEETAIRES

SERIES 195-196 PORTABLE FAN-GLO HEETAIRE



The first portable Heater with both kinds of heat. The Fan-Glo Heetaire does both — it gives warm comfort in a limited area first — the area of use — it produces and distributes quickly:

1. Abundant scientifically-reflected infra-red rays — to heat all the humans and furniture and walls in its rays quickly.
2. Abundant fan-forced heated air — fan-forced to heat all air around the humans and the entire room quickly.

Two Heaters in One—There are two Neo-Glo Elements in the double action Fan-Glo Heetaire. One is mounted in front of a chromium reflector to provide radiant heat. The other element heats the cool air which the fan draws in at the base of the Heetaire.

High-baked ripple enamel finish. Induction type motor for 50-60 cycles A.C. No radio interference. Size, 15¾ inches high; 9½ inches wide; 12 inches deep. Wired: 6-ft. of approved cord and plug.

Cat. No.	Volts	Cycles	Watts	Carton	Approx. Shpg. Wt. Lbs.	Price Each
195K2	115	50-60	1320	1	10	**$19.85**
196K2	115	50-60	1650	1	10	**19.85**

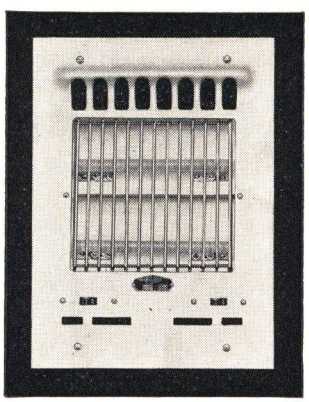
Also available 230 volt, 50-60 cycle, A.C. on special order; designate as H-196 or H-195.

SERIES 200 BUILT-IN WALL RADIANT HEETAIRE

Good looking, compact, easily installed, these popular Markel Heetaires are equipped with the Neo-Glo elements and chromium reflectors for cheerful, radiant heat.

Finish: Highly polished Nuchrome.

Reflectors chromium plated, highly polished.



Size: Front—16¾ inches high x 12 inches wide. Box—13¾ inches high x 10½ inches wide x 3 inches deep. No radio interference. Packed one to a carton.

Cat. No.	Watts	Volts AC/DC	No. of Switches	No. of Elements	Approx. Shpg. Wt. Lbs.	Price Each
201	1000	115	1	1	10	**$18.95**
201H	1000	230	1	1	10	**18.95**
205	1250	115	2	2	10	**19.95**
205H	1250	230	2	2	10	**19.95**
206	1250	115	1	2	10	**18.95**
206H	1250	230	1	2	10	**18.95**

MARKEL HEETAIRES

SERIES 166 HIGH WATTAGE FAN-DRIVEN HEATER



A high voltage fan-driven heater at a low price. Stands 12 inches high. Fan equipped for room-wide circulation of heat. No radio interference. Built with heavy gauge metal case.

Finished in Tantone, a color to harmonize with any interior.

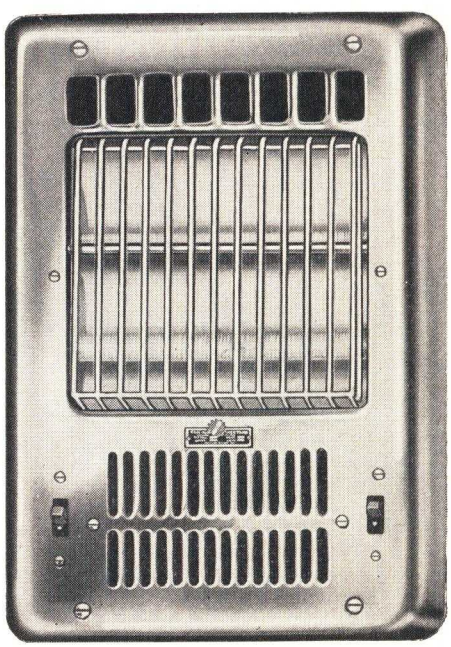
Tested and listed under reexamination service by Underwriters' Laboratories, Inc.

High-baked rippled enamel finish. Induction type motor for 50-60 cycle A.C. only. Wired: 6-ft. approved cord set.

Size: 12 inches high, 8½ inches wide, 6½ inches deep. Watts: 1320. Volts: 115. Shipping weight, approx. 5 lbs.

Price, Series **166**.....**$11.95**

SERIES 230 BUILT-IN WALL FAN-GLO HEETAIRE



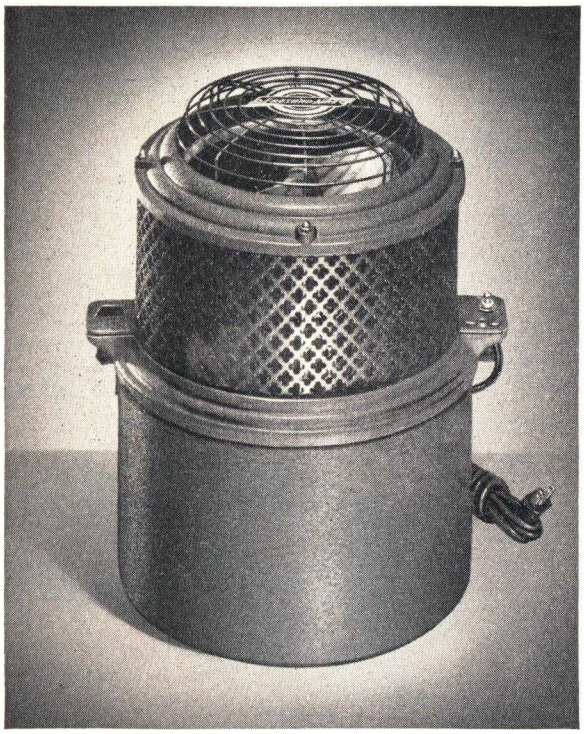
The 230 Series Built-In Wall Fan-Glo Heetaire is the first recessed heater built that gives both kinds of heat — abundant infra-red rays plus abundant fan-forced heated air. (Construction and principle are exactly the same as the Portable Fan-Glo Heetaire.)

Highly polished Nuchrome. Heetaire front, 12 inches wide x 18 inches high. Heetaire box, 10½ x 15 x 3 inches. Wired, two elements and two switches. One element and fan can be shut off at user's convenience. Motor, 50-60 cycle A.C. only.

Cat. No.	Watts	Volts	Price Each	Cat. No.	Watts	Volts	Price Each
232K	1250	115	**$35.00**	**233HK**	1500	230	**$37.50**
232HK	1250	230	**35.00**	**235K**	2000	115	**40.00**
233K	1500	115	**37.50**	**235HK**	2000	230	**40.00**

FRESH'ND-AIRE HUMIDIFIER

MODEL No. 600



This year—many a person will say goodbye forever to dry parched air—the indoor cause of ill-health, colds, and incalculable damage to furniture, walls and woodwork.

Thousands are discovering the amazing new Fresh'nd-Aire Humidifier — the scientific answer to the problem of moisture-starved air. Just fill with water — plug in — and the Fresh'nd-Aire Humidifier does the rest. Filters and washes air as it humidifies — circulates pure, comfortable moist air throughout the house.

Features

Adds correct amount of moisture to air.

Cleans, washes and filters out dust, dirt, smoke and pollen.

Circulates air gently—without drafts.

In winter, provides greater comfort at lower room temperatures.

Reduces heating costs.

Simple, sturdy all-steel construction assures years of trouble-free service.

Operates at penny-cheap cost.

Specifications

16½ inches high, 12 inches diameter; weight 15 pounds.

Motor: 48 watts, shaded pole, 60 cycle, 115 volts, A.C. Underwriters' Laboratories approved — CSA No. 8259. Approx. 12,000 cu. ft. washed air per hour. Reservoir capacity: Three gallons water.

Model No. **600**—Fresh'nd-Aire Humidifier....**$59.50**

FEDERAL ELECTRIC SIRENS

FEDERAL VERTICAL SIRENS



5 H.P. Federal Siren

Vertical general alarm and code sirens provide effective signals for industries and municipalities. The vertical design distributes the sound equally in all directions over a radius of from ¾ to 3 miles. Grease sealed ball bearings and heavy duty construction assure maximum durability and performance. The heavy galvanized sheet metal housing makes the siren completely weatherproof but does not muffle tone.

Large sirens should be operated through a remote control to which any number of push buttons, or pull lever boxes may be connected.

Siren No.	H.P.	Voltage	Motor Current	Cycle	Phase	Shpg. Wt.	Price Each
2	2	110–220	Univ.	Any	1	90	**$225.00**
3	3	220–440	AC	60	3	385	**360.00**
3	3	220	AC	60	1	450	**450.00**
5	5	220–440	AC	60	3	485	**425.00**
5	5	220	AC	60	1	505	**500.00**
7	7½	220–440	AC	60	3	515	**450.00**
7	7½	220	AC	60	1	525	**525.00**

TYPES "A" AND "L" SIRENS



Type A Standard Siren

An excellent signal wherever electricity is available. High-speed, ⅓-horsepower, grease-sealed, ball-bearing motor produces powerful tone. Entire assembly is protected by weatherproof housing. Equipped with swivel bracket for any mounting. Length overall 17 inches, horn diameter 10 inches. Any specified voltage from 6 to 110 AC. or D.C. Shipping weight 15 pounds.

Price, Standard Type A Siren.....each **$55.00**

The new Model L Siren, similar to the Type A, but more powerful and with deeper tone. Designed for extremely heavy duty services, especially on higher voltages. Length overall 20 inches. Diameter 11½ inches. Available for 110, 220, or 250 volts, AC or DC. Price.....**$70.00**

Type A Weatherproof Code Siren produces short, sharp code blasts. Coding accomplished by closing sound ports, not by braking. Two or more code sirens may be connected for synchronous operation. Mechanical details similar to Standard Type A. 110 volts.

Price, Type A-Code Siren.....each **$85.00**

VEHICLE SIRENS

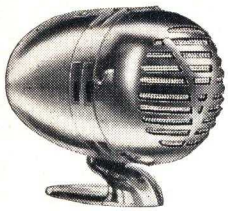
A complete line of powerful sirens, with or without flashing lights for fire apparatus, ambulances, police cars, and other emergency vehicles, ranging in price from **$19.00** to **$135.00.** Complete information on request.

COMPRESSED AIR WHISTLES

Fifteen types of whistles and valves for manual or electric operation. See listing of Compressed Air Horns.

FEDERAL VEHICLE SIRENS

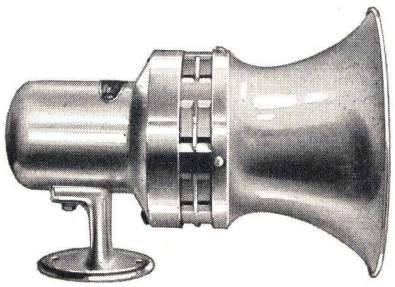
MODELS O AND V SIRENS



Low in price but high in quality. Alike in all respects excepting the finish. Measures 8 inches long; 5¾ inches high and 4⅞ inches in diameter. Weight 5¼ pounds. Complete with switch and cable. Available for 6 or 12 volts.

Model O—Black Lacquer finish.....each **$19.00**
Model V—Chromium finish .....each **21.00**

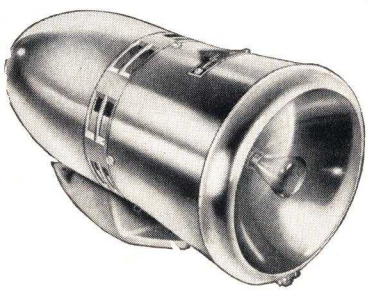
MODEL E SIRENS



Conservative in price and appearance, but packed with high quality and performance, the type E is the most widely used vehicle siren in service today. Available with projector or flat front. 8¾ inches high and 12½ inches long with projector. Complete with switch and cable.

Model E With flat grille.....each **$40.00**
With projector .....each **45.00**

MODEL W SIREN



A streamlined lighted siren, for law enforcement vehicles and ambulances. Flashing red light gives visible as well as audible warning. Suitable for light fire apparatus. Can also be furnished with grille front instead of light. Chromium finish. 6, 12, 24 or 32 volts. Length 13½ inches, height 7½ inches, diameter 5⅞ inches. Shipping weight, 15 lbs.

Model W With light .....each **$60.00**
Without light .....each **50.00**

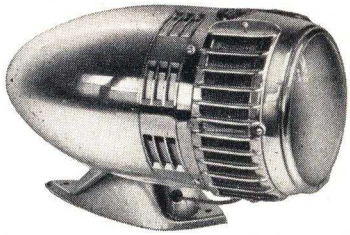
MODEL X WEATHERPROOF SIREN

Unconventional in appearance and likewise in design, this is the only vehicle siren which is both weatherproof and directional. Black morocco enamel finish. 6 or 12 volts. Dimensions, 8½ inches high, 13¾ inches long, 9½ inches wide.

Model X With light and flasher.....each **$65.00**
Without light and flasher....each **60.00**

FEDERAL VEHICLE SIRENS

MODELS 66 AND 67 SIRENS



These sirens are unusually large and powerful. Designed for heavy duty service on fire apparatus or ambulance. The Model 66 is available with flashing light or with plain grille. The Model 67 now incorporates the new "Propello-Ray" moving light which is driven by a separate electric motor. All types are chrome plated and streamlined. 15 inches high and 7 inches in diameter. Net weight averages 28 pounds. Available for 6 or 12 volt. Complete with necessary switches.

Model 66 With plain grille .....each **$70.00**
With flashing light .....each **80.00**
Model 67 With Propello-Ray light....each **100.00**

MODELS 77 AND 78 COASTER SIRENS

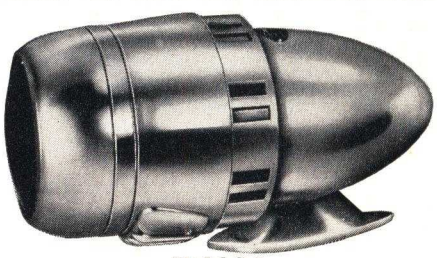


Model 78

These outstanding sirens, little larger than the models 66 and 67 are super performers. They produce a double tone, one high pitched for penetration, the other low for long range. They have a free wheeling arrangement that functions automatically so they coast for two minutes after the power is shut off. So the tone may be instantly silenced when desired, an electric brake is optional. Streamlined and chrome plated. Weight, 28 to 32 pounds. Length 16 inches; diameter 7 inches. Complete with necessary switches and cables.

Model 77 With plain grille .....each **$95.00**
With flashing light .....each **105.00**
Model 78 With Propello-Ray light....each **120.00**
Above models with electric brake, add..... **10.00**

MODELS C-5 AND C-6 COASTER SIRENS



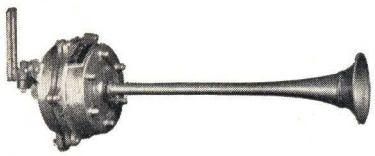
Model C-6

These are the ultimate in vehicle sirens; massive and super-powerful with an unequalled deep tone roar and three minute roll. Really styled, and chrome plated. Electric brake is optional. 6 or 12 volts. Weight 28 to 32 pounds. 17½ inches long and 8½ inches in diameter. Complete with necessary switches and cables.

Model C-5 With plain Grille .....each **$100.00**
With flashing light .....each **110.00**
Model C-6 With Propello-Ray light..each **125.00**
Above models with electric brake, add..... **10.00**

FEDERAL ELECTRIC HORNS

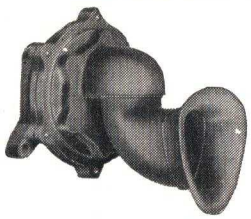
FEDERAL RESONATING HORNS



A new and radically different electric horn. Its powerful, pulsating, trumpet-like tone is pleasant but penetrating. Will overcome unusually high noise levels. Weatherproof, watertight, and non-corrodible. Available for any specified voltage from 6 to 250. Housing tapped for ½-inch conduit. Has adjustable mounting bracket. Length overall, 20½ inches.

Cat. No.	Voltage	Current	Cycle	Shpg. Wt. Lbs.	Price Each
55	24 to 250	AC	25–60	11	**$60.00**
56	6 to 250	DC	.....	11	**60.00**

STANDARD VIBRATORY HORNS



Single Projector Type

Federal vibratory horns are weatherproof and watertight. They are constructed of non-corrodible materials and are for use outdoors as well as indoors. Standard horns are sufficiently loud to overcome most noise levels.

Available in any specified voltage from 6 to 250 AC or DC.

Alternating Current Cat. No.	Alternating Current Price Each	Description	Direct Current Cat. No.	Direct Current Price Each
30-A	**$15.40**	Grille Front	**40-A**	**$18.70**
30	**20.65**	Single Projector	**40**	**23.95**
50	**27.50**	Double Projector	**51**	**30.80**

INTERIOR TYPE VIBRATORY HORNS

Similar in appearance and performance to the standard horns listed above, but non-weatherproof for interior use.

Alternating Current Cat. No.	Alternating Current Price Each	Description	Direct Current Cat. No.	Direct Current Price Each
35	**$17.15**	Single Projector	**45**	**$20.45**
36	**23.90**	Double Projector	**46**	**27.20**

HIGH POWER VIBRATORY HORNS

Employ the same high quality materials and design as the standard units. They are excellent for the more noisy locations, having about twice the volume of ordinary horns. Like the standard horns, are available with grille front, single or double projector, and in any specified voltage from 6 to 250 AC or DC.



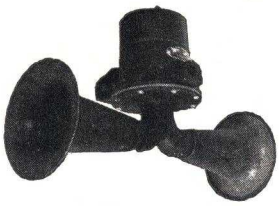
With Grille Front

Alternating Current Cat. No.	Alternating Current Price Each	Description	Direct Current Cat. No.	Direct Current Price Each
31	**$18.50**	Grille Front	**41**	**$23.00**
32	**25.00**	Single Projector	**42**	**29.00**
33	**33.50**	Double Projector	**43**	**37.00**

FLUSH TYPE HORNS

All grille front Standard and High Power Models are also available for flush mounting at a slightly higher price. Ask for literature.

FEDERAL MOTOR DRIVEN HORNS



Type Nos. 60 or 61



Type Nos. 20 or 21

These horns are clear and vibrant in tone, providing a pitch so distinctly different that they gain instant recognition. They are especially recommended for noisy locations. They are properly gasketed to be waterproof and are extremely rugged. Housing is tapped for ½-inch conduit. Motor driven horns are not recommended where rapid code signals are required.

Rating: A.C. Horns — 110-220-250 volts, 25 to 60 cycles. D.C. Horns — 24-110-220-250 volts.

Type	Projector	Current	Watts	Overall Dimens.	Wt. Lbs. Net	Wt. Lbs. Shpg.	Price Each
20	Single	AC	55	14¼x6¼	11½	13	**$55.00**
21	Single	DC	55	14¼x6¼	11½	13	**58.30**
60	Double	AC	55	19¾x6¼	11½	15	**58.30**
61	Double	DC	55	19¾x6¼	11½	15	**61.60**

FEDERAL COMPRESSED AIR HORNS



Model No. 6-H

For industries and municipalities, wherever a loud distinctive general alarm or code signal is desirable.

For short codes or prolonged alarms, Federal air horns are ideal. Each successively larger whistle has a deeper and more powerful tone. Projectors are specially machined cast bell bronze. Horns are available for specific pressures ranging from 15 pounds upward.

Diaphragms of special metal will last almost indefinitely at proper working pressure. Hand valves or electric valves also are available at prices depending on current and pressure characteristics required.

Numerals in Model Nos. indicate diameter of diaphragm. Letters H, M, or L indicate high, medium or low pitch. For example, Model 10-L is a 10-in. diaphgram low pitch horn, etc.

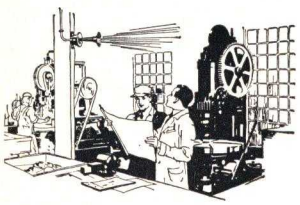
Model No.	Frequency in CPS	Length Overall Ins.	Pipe Size Ins.	Shpg. Wt. Lbs.	Price Each Horn	Price Each Hand Valve	Price Each Elec. Valve
Screw Type Connection							
3-H	725	4¾	⅜	4	**$30.00**	**$7.50**	**$18.00**
3-M	420	6½	⅜	5	**37.50**	**7.50**	**18.00**
3-L	350	12½	⅜	6	**45.00**	**7.50**	**18.00**
4-H	470	7½	½	7	**40.00**	**7.50**	**25.00**
4-M	380	11	½	12	**65.00**	**7.50**	**25.00**
4-L	290	14½	½	14	**80.00**	**7.50**	**25.00**
6-H	310	11½	¾	20	**100.00**	**10.00**	**40.00**
6-M	255	15	¾	22	**120.00**	**10.00**	**40.00**
6-L	190	18½	¾	25	**135.00**	**10.00**	**40.00**
Flange Type Connection							
8-H	240	14½	¾	50	**185.00**	**10.00**	**40.00**
8-L	170	21½	¾	60	**250.00**	**10.00**	**40.00**
10-H	200	16	1	60	**225.00**	**12.50**	**60.00**
10-L	125	32	1	120	**275.00**	**12.50**	**60.00**

Valves are available for any common voltage in D.C. from 6 to 250 volts; for 60-cycle A.C. in 24, 110, 208, 220, and 240 volts; and for 25-cycle A.C. on 110, 220, and 440 volts.

BENJAMIN INDUSTRIAL HOWLERS

Listed by Underwriters' Laboratories

For Calls and Warnings in Factories, Yards, Etc.

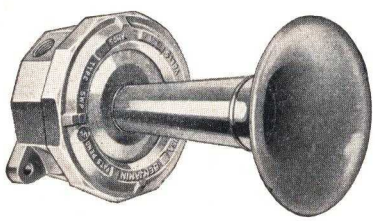


Benjamin Industrial Howlers have a peculiar pitch and penetrating tone which makes them most effective and satisfactory signals. They are so ruggedly made and carefully assembled that infallible daily performance may be expected for years. Their maintenance cost is less than for any other form of signal.

Some Uses for Benjamin Howlers

Factory superintendent's and foreman's calls.
Tell-tale or warning for water tank levels.
Steam or gas pressures, sprinkler systems, etc.
Burglar alarms.
Fire alarms.
Mines.
Draw bridge signals.
Signalling the opening and closing hours.
Police systems.
Railroad crossings.
Marine signals.
Municipal fire stations.

HEAVY DUTY WEATHERPROOF HOWLER



Heavy cast construction, thoroughly weatherproof and dust tight and dependable under severe service. The new threaded ring separable construction and plug-in type of wiring connection assures easy installation and servicing. Housings tapped ½-inch one side, ¾-inch at same price. Finish battleship gray enamel.

With 7½-Inch Bell Type Projector

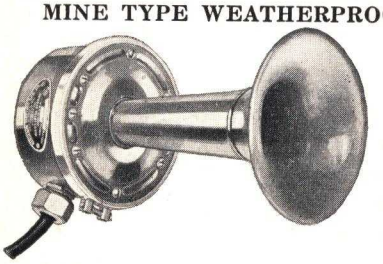
Alternating Current (*60 Cycles) No.	Volts	List Price	Direct Current No.	Volts	List Price
8546-110V	110	$20.65	8526-110V	110	$23.95
8546-220V	220	20.65	8526-220V	220	23.95

With Double Bell Type Projector

For projecting sound both ways along narrow passages, platforms, etc.

8590-110V	110	27.50	8599-110V	110	30.80
8590-220V	220	27.50	8599-220V	220	30.80

MINE TYPE WEATHERPROOF HOWLER



Dust and moisture proof pressed steel construction. Complete with 8-inch insulated wire leads. Housings have two gasketed mounting holes.

Battleship gray finish.

Alternating Current (*60 Cycles) No.	Volts	List Price	Direct Current No.	Volts	List Price
8652-110V	110	$20.65	8651-110V	110	$23.95
8652-220V	220	20.65	8651-220V	220	23.95

*60 cycles standard. 25 cycles in all voltages supplied at 60 cycle prices.

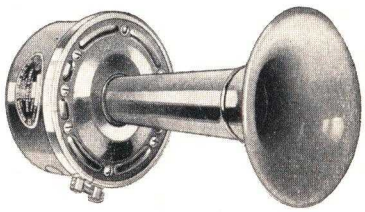
SPECIAL VOLTAGES—To order special voltages, drop voltage suffix of regular number and substitute desired voltage. Voltages to 110 supplied at 110 volt prices; over 110 at 220 volt prices.

Schedule 10 Discounts Apply.

BENJAMIN INDUSTRIAL HOWLERS

Listed by Underwriters' Laboratories

NON-WEATHERPROOF FACTORY HOWLERS

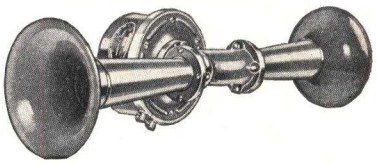


Howlers of dust proof pressed steel outlet box construction for use in interior locations. Howlers have new powerful sounding mechanism and can be easily serviced as the entire projector assembly including the horn mechanism can be removed without touching the wiring. Housings are tapped ½-inch and attach to 3¼ or 4-inch steel outlet boxes. Baked battleship gray enamel. 7½-inch bell type projector.

Alternating Current (*60 Cycles) No.	Volts	List Price	Direct Current No.	Volts	List Price
8755-110V	110	$17.15	8726-110V	110	$20.45
8755-220V	220	17.15	8726-220V	220	20.45

With Double Bell Type Projector

For projecting sound both ways along narrow passages, platforms, etc.



8795-110V	110	$23.90	8794-110V	110	$27.20
8795-220V	220	23.90	8794-220V	220	27.20

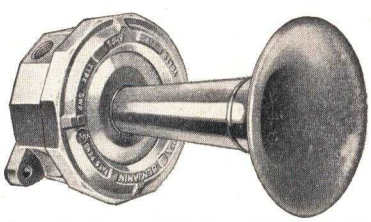


Projectorless Type With Grille Front

For locations where no projector is necessary. Howler has same quick demountable mechanism and plug-in electrical contacts as other howlers shown above.

8741-110V	110	$15.40	8740-110V	110	$18.70
8741-220V	220	15.40	8740-220V	220	18.70

WEATHERPROOF FIRE ALARM HOWLER



Especially for use on fire alarm systems operating under stringent regulations.

Eight fourteen volt or fourteen eight volt howlers may be used in series on 110 volt lines. Where less than 8 howlers are used on 110 volt lines, horns of special voltage can be supplied so that the total voltage of all horns on the circuit will approximate the line voltage.

Surrounding mechanism is vibrator type. Body is cast iron, tapped for ½-inch pipe. One-piece, bell type projector is attached to steel front cover. Finish is red enamel.

No.	Volts	List Price	No.	Volts	List Price
8560-110V	110, DC	$23.95	8565	*14 , AC	$20.65
8560-220V	220, DC	23.95	8566-110V	*110, AC	20.65
8564	*8, AC	20.65	8566-220V	*220, AC	20.65

*60 cycles standard. 25 cycles in all voltages supplied at 60 cycle prices.

SPECIAL VOLTAGES—To order special voltages, drop voltage suffix of regular number and substitute desired voltage. Voltages to 110 supplied at 110 volt prices; over 110 at 220 volt prices.

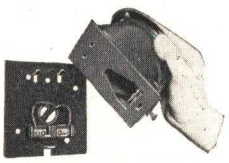
Schedule 10 Discounts Apply.

EDWARDS HORNS AND HOWLERS

Schedule S

Loud, efficient horns for schools, industrials, etc. Easily adjustable after installation for raucaus or smooth tone as desired. Underwriters' approved.

INDOOR TYPES



No. 311 Back Plate



No. 311 for Indoor Use

Indoor types have back plate, mounting direct on wall, 4-inch square box, standard switch boxes, outlet boxes, Wiremold, Condulets, etc. Universal mounting for any condition. Wires are brought through entrance hole and connections made to binding posts on front of plate. Horn then hung on two strong lugs and pressed home where sturdy springs make electrical connection and hold horn securely. Set screw locks it in place if desired.

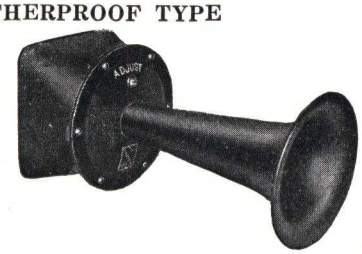
No. 311—Powerful signal with grille front for indoor use. 5½ inches diameter, 3⅝ inches deep.



No. 310 for Indoor Use

No. 310. Projector makes it slightly louder than No. 311. Recommended where machinery noises, etc., must be overcome. 10½ inches long, 5½ inches high, 5 5/16 inches deep.

WEATHERPROOF TYPE



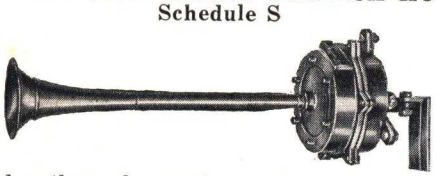
Cast housings with extra-heavy gaskets. Easy connection after mounting.

No. 312 10½ inches long, 5½ inches high, 5 5/16 inches deep.

No.	24 V. A.C. 60 Cycle	115 V. A.C. 60 Cycle	25 Cyc. or Up to 250 V.
310	**$21.00**	**$21.00**	**$25.00**
311	**18.50**	**18.50**	**23.00**
312	**25.00**	**25.00**	**29.00**

No. 5420 WATERTIGHT SCREECH HORN

Schedule S



Louder than the ordinary horn. Approx. 115 Decibel rating at 3 feet indoors. Has extended steel projector and cast base. Base is fastened to bracket for wall or ceiling mounting. Swivel action of bracket permits mounting in any desired direction.

For 115-volt D.C. or 60 cycle operation.

Price, No. **5420** A.C. ..... each **$75.00**
No. **5421** D.C. ..... each **75.00**

EDWARDS FLUSHCALL LINE



A modernized line of devices to replace old-fashioned doorbells, buzzers, combinations, transformers, and push buttons. Each device fits standard switch boxes, outlet boxes and fittings and takes standard toggle or receptacle plates. No-contact design for A.C. only, assuring long life with no adjustment needed. Can be ganged with switches, receptacles, etc.

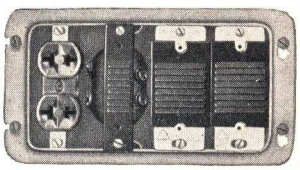


Illustration shows ideal arrangement consisting of Duplex receptacle, Powacall and audible signals which may be covered by standard plate, instead of transformer in cellar, bells high on wall and convenience outlet low on wall. Transformer takes power from same line as receptacle. Because of depth of Powacall transformer, this combination uses 2½-inch deep box. See description of Powacall below. 24 volts should be used where quantity of devices is to be operated in multiple at once.

The Ringcall

Flush bell with better tone and more carrying power.

	Schedule S 8-10 V. A.C.			Schedule S 24 V. A.C.		
No.	Std. Pkg.	Price Each	No.	Std. Pkg.	Price Each
660	6	**$1.50**	**760**	3	**$1.85**

The Buzacall

Flush buzzer with better tone and more carrying power. Over 100% variation in tone possible.

	Schedule S 8-10 V. A.C.			Schedule S 24 V. A.C.	
No.	Std. Pkg.	Price Each	No.	Std. Pkg.	Price Each
661	6	**$1.45**	**761**	3	**$1.75**

The Tucall

Flush combination bell and buzzer.

	Schedule S 8-10 V. A.C.			Schedule S 24 V. A.C.	
No.	Std. Pkg.	Price Each	No.	Std. Pkg.	Price Each
662	6	**$2.35**	**762**	3	**$2.35**

The Melocall

Soft single stroke for third signal, dining room-kitchen call, and similar uses.

	Schedule S 8-10 V. A.C.			Schedule S 24 V. A.C.	
No.	Std. Pkg.	Price Each	No.	Std. Pkg.	Price Each
663	1	**$2.05**	**763**	3	**$2.35**



Powacall

Flush transformer. Fits in second gang of standard 2½-inch deep box with other Flushcall devices described above. Acts as barrier for either outlet or switch box. Underwriters' approved.

Schedule S				
	Voltage		Std.	Price
No.	Primary	Secondary	Pkg.	Each
666	115, 60 Cy.	8	3	**$2.80**

No. 664 Togelpush



Fits any standard box, takes standard toggle plate.

Schedule S

No.	Description	Std. Pkg.	Price Each
664	The Togelpush	6	**$0.40**

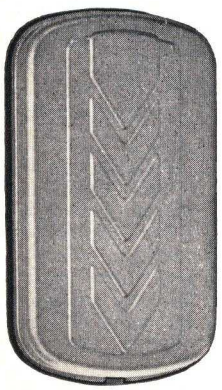
EDWARDS STREAMLINED DOORBELLS AND BUZZER

Schedule S

Beautifully streamlined for standard, modern appearance. Aluminized finish is lasting and harmonizes with any wall color. All bell movements have straight hammer rods and solid hammer balls, giving more power and smoother action on battery or transformer.

Large magnets, correctly designed phosphor-bronze springs, silver contacts and fine workmanship make these the finest, low-cost bells ever produced.

The small buzzer has an unusually powerful mechanism and is adaptable for a multitude of uses. Fully insulated, it is ideal for mounting on metal desks, metal frames, etc. Large magnet, correctly designed phosphor-bronze spring, silver contacts, make this fully enclosed buzzer a perfect complement to the new line of doorbells.



COVERED BELL AND COMBINATION

Non-adjustable, fully enclosed bell or combination. Aluminized finish, will harmonize with any wall color. Only 5¼ inches long, 3 inches wide, 1 inch deep.

The Dixie Bell

No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
720	12	6	**$1.00**

The Buzabel Combination

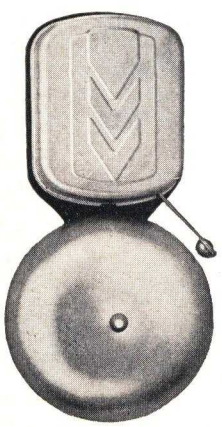
730	12	6	**1.60**

DIXIE BUZZER

Non-adjustable, fully enclosed. Ideal for mounting on metal desks, metal frames, etc. Aluminized finish. Only 2¾ inches long by 1¾ inches wide.



No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
725	12	2¼	**$0.85**



NUBEL—ENCLOSED BINDING POST TYPE

Enclosed binding post type bell available with 2½-inch or 4-inch gongs.

Aluminized bases and gongs. Non-adjustable.

With 2½-inch Gong

No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
740	12	4¼	**$0.90**

With 4-inch Gong

744	3	1	**1.60**

EDWARDS BELLS AND BUZZERS

No. 156 MONITOR BELL

Schedule S

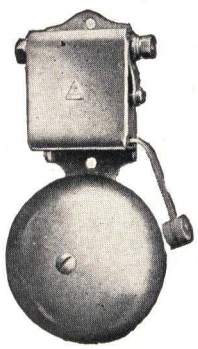


An entirely self-contained bell of neat appearance. The hammer-rod moves on a straight line and strikes the inside of the gong. This allows the bell to be made bug and dust-proof. Has 3-inch gong. 6-8 V.D.C., 8-10 V., A.C. Other voltages on request.

Price, No. **156** Monitor Bell.....each **$3.00**

No. 13 LUNGEN BELL

Schedule S

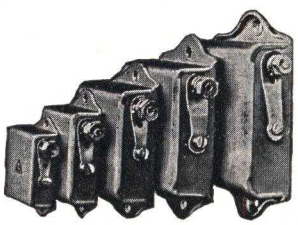


Lungen bells are the same construction as Lungen buzzers. Finish, polished chrome. Phosphor-bronze springs. Contacts pure hard-drawn silver, and double locking adjustment.

8-10 V. A.C., 6-8 V. D.C.

Size In.	Price Each	Size In.	Price Each
1	**$4.10**	2½	**$4.00**
1¾	**3.80**	3	**4.10**

Other voltages on request.



No. 15 LUNGEN BUZZER

Schedule S

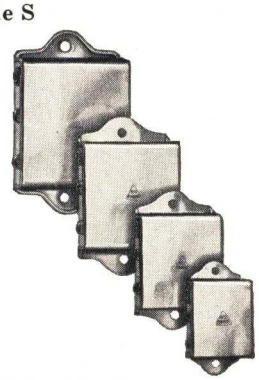
8-10 VAC., 6-8 VDC.

Size In.	Dimens. Inches	Price Each
0	1½x1⅝	**$3.30**
1	2⅛x1⅞	**3.10**
2	2⅝x2⅛	**3.30**
3	3 x2½	**3.50**

Standard package 3. Other voltages on request.

No. 115 NO-CONTACT A.C. BUZZERS

Schedule S



Completely insulated. Convenient for metal desks, etc. Completely covered. Internal binding posts. Standard finish, polished chrome.

Standard package 3.

Size In.	Price 8-12V.	Price 24V.
1 (2⅛x1 5/16)	**$2.90**	**$3.10**
2 (2⅝x1¾)	**3.10**	**3.30**
3 (3 x2)	**3.30**	**3.50**
4 (3½x2¼)	**4.50**	**4.75**

No. 55 EDWARDS BELLS

Schedule S



Standard Voltage
8-10 Volts A.C., 6-8 Volts D.C.

This single magnet bell is especially designed for low cost burglar alarm and similar work.

It is of the adjustable, non-weatherproof type.

Has black finish with nickel gong.

Standard package, 1.

Size .....inches	4	6
No. **55** .....each	**$5.50**	**$6.00**

EDWARDS ECONOMY BELLS

Schedule S



Standard Voltage
8-10 Volts A.C., 6-8 Volts D.C.

This is a covered, double magnet bell for low cost burglar alarm and similar work.

Adjustable. Bakelite insulation. Finish, grey. Standard package, 1.

Size ..... inches	4	6
No. 17 ..... each	$11.50	$13.60

EDWARDS ADAPTABELS

VIBRATING AND SINGLE STROKE TYPES

Underwriters' Approved





Finest quality bell for all uses. Sizes 6 and 10-inch have back plate easily hung on wall or all types switch, octagon and square boxes, Wiremold, Condulets, etc. Wire connected direct to plate. Bell then hung on strong lugs and pushed home with sturdy spring contacts making electrical connection and holding it permanently in place. Set screw at bottom locks it in place if desired. The A.C. vibrating mechanism is the polarized no contact type. The D.C. vibrating mechanism is also of the straight line plunger type. Single stroke types are of solenoid design. All gongs are hot pressed steel, Parkerized to prevent rust. Weatherproof if specified.

Schedule S

Vibrating Types—No. 560 A.C. or No. 561 D.C.

Size Inches	24V.A.C. No. 560 / 9V. D.C. No. 561	115V.A.C. No. 560 / 115V. D.C. No. 561	Up to 250V. A.C. No. 560* / Up to 250V. D.C. No. 561
4	$20.00	$25.00	$30.00
6	28.50	33.50	38.50
10	40.00	45.00	50.00

*Maximum of 125 V. on 4 inch.

Single Stroke Types—No. 562 A.C. or No. 563 D.C.

All 6 and 10-inch Single Stroke Adaptabels mount directly on wall or 4-inch square box, or standard switch box, or any single gang switch cover, or on any single gang Condulet or Wiremold type fitting. All 4-inch Single Stroke Adaptabels are furnished with special wall boxes because of small size base.

Specify exact voltage and whether for series or multiple operation. Standard—non-weatherproof. Fully weatherproof, if specified at no extra charge.

Size Inches	A.C. 24V. No. 562	D.C. 24V. No. 563	A.C. 115V. No. 562	D.C. 115V. No. 563	Up to 250V A.C. No. 562	Up to 250V. D.C. No. 563
4	$20.00	$23.00	$25.00	$25.00	$30.00	$30.00
6	28.50	30.00	33.50	33.50	38.50	38.50
10	40.00	42.50	45.00	45.00	50.00	50.00

EDWARDS SINGLE STROKE BELLS

FOR FIRE AND SIGNALING SYSTEMS

Schedule C



Solenoid type construction, giving a loud, clear ring. The operation is quick and precise, ideal for all coded signaling purposes. The construction eliminates springs and pivots and the life of the bell is unusually long.

The entire mechanism is under the gong. For surface conduit work a separable box is furnished with knockouts on all sides. This same box can be mounted flush and an extension cover is furnished for mounting the bell.

Single stroke bells can be operated either in series or multiple, but will be furnished for the latter unless specified.

When conduit type is ordered, flush fitting will be supplied unless otherwise specified.

For Fire Alarm Systems. Specify No. 23 for direct current; No. 24 for alternating current.

Be sure to specify voltage and whether for series or multiple operation.

For Series Operation on 115 Volts from Control Panel

Size Inches	Wt. Lbs. Each	Price Each
4	2	$25.00
6	4¾	33.50
10	9	45.00

FEDERAL INDUSTRIAL BELLS

VIBRATING AND SINGLE STROKE



A superior bell for all purposes. Stronger, slower impulses assure maximum sound output. Standard models are weatherproof, and will be furnished unless otherwise specified.

Optionally available, if specified, with plug-in feature for surface or concealed conduit mounting, for interior use. No extra charge for these optional features.

Standard housings tapped for ½-inch conduit. Available for all standard voltages from 6 to 250, any cycle ac, or for dc. Definite electrical requirements must be specified.

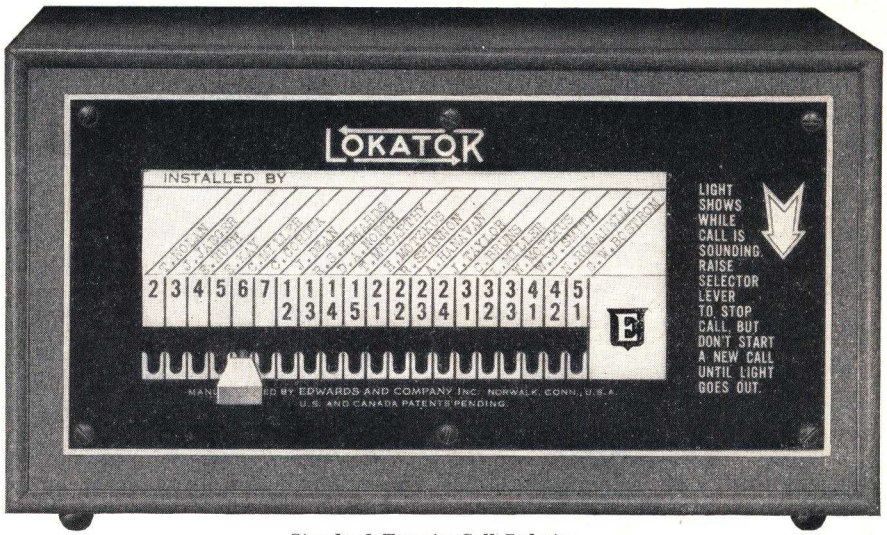
Vibrating Bells

Model	Current	Size Ins.	Shpg. Wt. Lbs.	Price Each 9V	24V	115V	Other Voltages
306	AC	6	6¼	.....	$28.50	$33.50	$38.50
406	DC	6	6¼	$28.50	30.00	33.50	38.50
310	AC	10	8½	.....	40.00	45.00	50.00
410	DC	10	8½	40.00	42.50	45.00	50.00

Single Stroke Bells

106	AC	6	6¼	.....	28.50	33.50	38.50
206	DC	6	6¼	28.50	30.00	33.50	38.50
110	AC	10	8½	.....	40.00	45.00	50.00
120	DC	10	8½	40.00	42.50	45.00	50.00

EDWARDS LOKATOR SYSTEM



Standard Twenty Call Lokator

An efficient, inexpensive, dependable system, which through the medium of various signals located throughout a plant, store or office enables the telephone operator in one operation to quickly locate any person for a telephone call, etc.

The Lokator is operated entirely by low voltage irrespective of the voltage used to operate the signals. Its mechanism is driven by a small but sturdy, noiseless, synchronous motor. There are no intricate springs, cams, gears, etc.

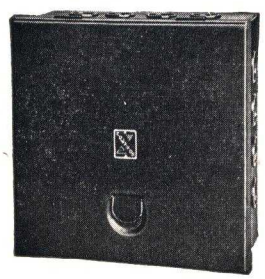
Plainly designed the Lokator presents a neat, dignified, efficient appearance. Its wrinkle grey finish with black panel relieved in dull chromium is practical and ornamental. It is neutral and harmonizes smartly with all interiors and furniture.

Only 10x5¾x5½ inches, the Lokator may be placed conveniently on the key shelf or on top of any switchboard. It is light and portable (8½ lbs.) and may be shifted about.

It is not necessary for the operator to remember code numbers. All names are typed on a strip protected by plastic, directly above the selector lever.

Every unit of the Lokator system is scientifically standardized. Special installations, which require costly items have been avoided. The easiest, least expensive and most convenient method of wiring the devices may be used. Conduit, molding, etc., are not necessary.

POWER UNIT



The Power Unit

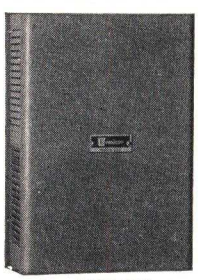
The power units are standardized to provide the most desirable voltage operation of the system from either A.C. or D.C. lighting circuit.

A simple chart shows the quantity of signals one power unit will operate over a given distance and wire size. The system is unlimited, as additional power units may be inserted into the line where needed.

SOUNDING DEVICES



No. 5024 Lokator Bell



No. 5005 Chime



No. 5031 Light Signal

A wide variety of sounding devices is offered to cover all conditions; a soft musical note, a louder note, a sharp toned bell, a silent light flash, a blasting horn. Each one, however, is designed, rated and standardized for operation together. Again there are no "special" problems.

The most commonly used of the sounding devices for all systems are the chimes. They have a pleasant musical tone to which the ear responds subconsciously, but which is not annoying.

The light signal is ideal for locations where no noise whatsoever is required and then the call is shown by the flashing light.

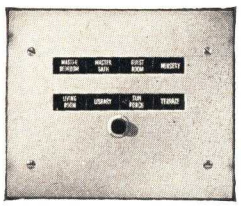
The specially designed bells give a clear crisp tone and will stand many years of hard service.

Complete information, prices and wiring details will be furnished upon request.

EDWARDS ANNUNCIATORS

Schedule S

No. 672 FLUSH TYPE ANNUNCIATORS



All metal case. Flush types can be completely wired before face plate is installed. Standard finish, light grey. Any other spray finishes, add 20 per cent.

8-12 volt A.C. operation with buzzer signal standard. Any A.C. or D.C. voltage up to 48, no extra charge.

No. of Drops	Wall Cut Inches Hght.	Wdth.	Manual Reset	No. of Drops	Wall Cut Inches Hght.	Wdth.	Manual Reset
4	4⅝	5⅞	**$27.50**	16	6¼	7⅞	**$72.00**
8	4⅝	5⅞	**39.00**	20	7⅞	7⅞	**90.00**
12	4⅝	7⅞	**56.00**	24	7⅞	7⅞	**105.00**

For each additional 6 drops, add.....**$40.00**

Depth 3 inches for all sizes.

No. 673 DESK TYPE ANNUNCIETTES

Schedule C

All metal cases. Small and compact. Standard finishes — mahogany, walnut or oak grain, as specified.

8-12 volt A.C. operation with buzzer signal standard. Any A.C. or D.C. voltage up to 24, no extra charge.



No. of Drops	Dimens., In. Hght.	Wdth.	Price Each	No. of Drops	Dimens., In. Hght.	Wdth.	Price Each
2	2½	4	**$45.00**	6	2½	7	**$80.00**
4	2½	5	**65.00**	8	2½	9	**100.00**

For each additional 6 drops, add.....**$50.00**

Depth, 2⅝ inches for all sizes.

No. 130 ELEVATOR ANNUNCIETTES



All metal case, black enameled finish. 8-12 volt A.C. operation with buzzer signal standard. Any A.C. or D.C. voltage up to 24, no extra charge.

No. of Drops	Dimensions No. 130 Height	Width	No. 130D Height	Price Each No. 130	130D Up and Down
3	7⅜	2½	.....	**$35.00**	.....
4	7⅜	2½	.....	**37.00**	.....
5	9¾	2½	.....	**41.00**	.....
6	9¾	2½	7⅜	**44.50**	**$50.00**
7	12¼	2½	.....	**48.00**	.....
8	12¼	2½	7⅜	**52.00**	**62.00**
10	14¾	2½	10⅛	**59.00**	**70.00**
12	17¼	2½	10⅛	**67.00**	**80.00**

Larger sizes, add **$6.00** per drop.

Depth, 2½ inches.

EDWARDS ANNUNCIATORS

Schedule S

SURFACE TYPE ANNUNCIETTE

No. 82—MANUAL RESET



New Surface Annunciators that are much smaller and neater than old fashioned types.

Electro-manual types have magnet reset mechanism. May be actuated from remote places. Ideal for multiple operation or remote control.

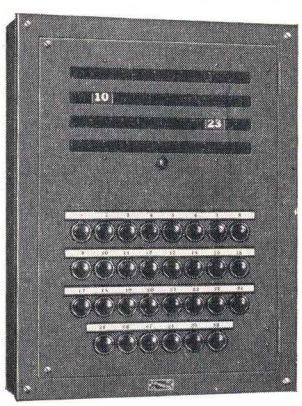
No. of Drops	Dimensions, Inches Height	Width	Depth	Price Each
4	4⅜	5¼	2½	**$22.00**
8	4⅜	5¼	2½	**34.00**
12	5	7 3/16	2½	**50.00**
16	7 3/16	7 3/16	2½	**65.00**
20	7 3/16	7⅞	2½	**84.00**
24	7 3/16	8⅜	2½	**100.00**

For each additional 6 drops, add.....**$40.00**

RETURN CALL ANNUNCIETTES
No. 410 SURFACE TYPE—HAND RESET

Schedule C

Standard Voltage, 8-12 Volts A.C



Used in hotels, institutions, etc., for the purpose of calling the room and receiving acknowledgment from the room that the call has been heard, or vice versa.

Designed to eliminate the large number of wires necessary if the standard annunciator, bells and pushes are used. Presents reduction in size without affecting clearness of indication.

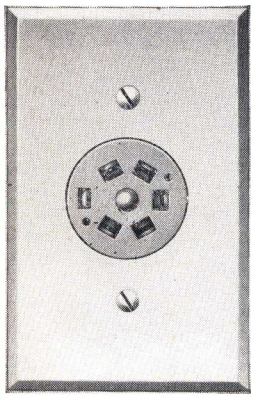
All metal case, surface type, in light gray, mahogany, walnut, oak or any solid spray finish.

No. of Drops	Arrangement Across	Down	Dimensions, Inches High	Wide	Deep	*Price Each
25	9	3	14½	13½	3¼	**$360.00**
30	8	4	16¾	12½	3¼	**410.00**
36	9	4	16¾	13½	3¼	**465.00**
42	11	4	16¾	15½	3¼	**540.00**
49	10	5	19	14½	3¼	**610.00**
56	12	5	19	16½	3¼	**680.00**

For each additional drop, add **$9.00** to list. For flush type, prices on application.

EDWARDS NURSES' CALL SYSTEMS

BEDSIDE STATIONS



No. 7601

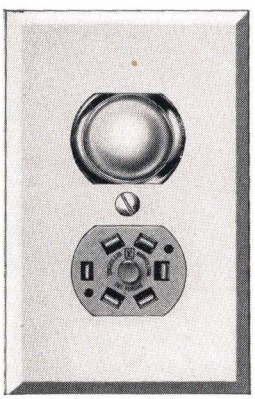
Designed for use primarily in private and semi-private rooms. These stations consist of the Edwards automatic jack for flush or surface mounting, a plug, a six-foot length of cord with clamp and locking button. Cord, plug and button set is washable grey. Stainless steel face plate is standard.

No.	Description	Price Each
7601	Single Cord Bedside Station	**$22.00**
7602	Double Cord Bedside Station	**36.00**

BEDSIDE STATIONS WITH PILOT LIGHTS

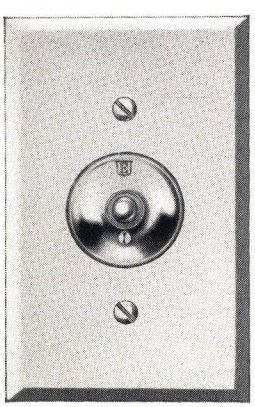
Designed for use primarily in wards or multiple bed rooms, as well as private rooms. Pilot light reassures patient that call has been placed and also in multiple bed rooms indicates to a nurse the station which has called. Pilot light has milk white torpedo shaped lens. Otherwise same as Nos. 7601 or 7602.

Stainless steel face plate is standard. For flush or surface mounting.



No.	Description	Price Each
7611	Single Cord Bedside Station with Pilot Light	**$30.00**
7612	Double Cord Bedside Station with Pilot Light	**44.00**

WALL STATION



Used in solariums, laboratories, etc., where no cord-set is required.

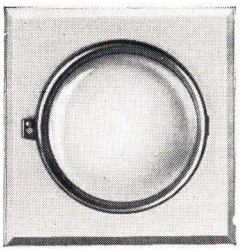
Station is equipped with the same high quality locking push mechanism as is used in cord type stations.

For flush or surface mounting. Stainless steel face plate is standard.

No.	Description	Price Each
7603	Wall Station	**$13.50**

EDWARDS NURSES' CALL SYSTEMS

No. 7031 CORRIDOR LAMP STATIONS



No. 7031

This station is mounted in corridor over room doors. Equipped with glass dome lamp signal held in place by a mounting ring which is hinged to the plate.

Will fit any standard outlet box with 2-gang cover having opening 2⅞x3$\frac{35}{64}$ inches.

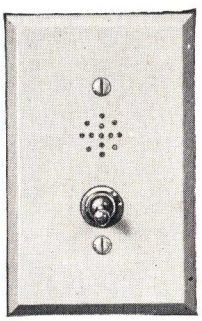
Standard finish is white enamel. No outlet box is supplied.

No. 7137 FLUSH BUZZER STATIONS

For diet kitchens, utility and workrooms, where no lamp signals are required or as extension audible signals. Equipped with a mild toned buzzer mounted behind face plate and with a cutout switch.

Fits any standard outlet box with single gang cover with opening 2⅞x1$\frac{47}{64}$ inches.

Standard finish is brush brass or white enamel. No outlet box is supplied.



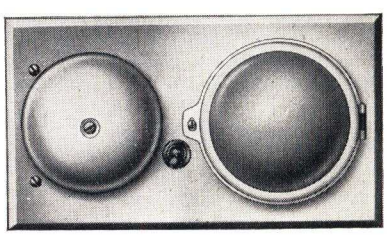
No. 7137

BALCONY STATIONS

Designed for use on open porches and balconies. Includes automatic jack, 15 feet of cord, locking button, plug, receptacle gasketed with aluminum finished face plate. Screw-on cover secured by chain is provided to protect receptacle when not in use. Station is weatherproof when closed. Takes standard weatherproof plate. For flush or surface mounting.

No.	Description	Price Each
7621	Single Cord Balcony Station	**$35.00**
7622	Double Cord Balcony Station	**60.00**

No. 7133 SINGLE DOME PILOT AND BUZZER STATIONS



No. 7133

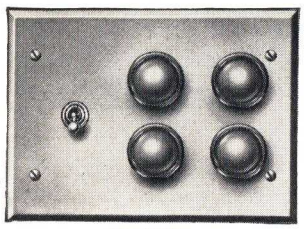
For diet kitchens, utility rooms, work rooms, etc., where individual room signal is not required.

Will fit any deep type outlet box with a 3-gang cover with opening 2⅞x5$\frac{33}{64}$ inches.

Standard finish is brush brass or white enamel. No outlet box is supplied.

EDWARDS NURSES' CALL SYSTEMS

No. 7035 BULL'S EYE TYPE MULTIPLE LAMP AND BUZZER STATIONS



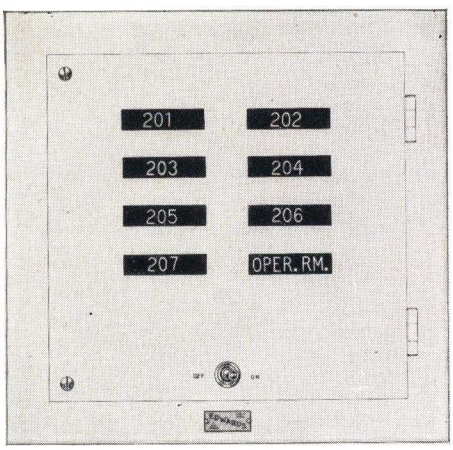
No. 7035

Used in diet kitchens, utility rooms and work rooms where ward and private indications are desired.

Furnished marked for as many indications as necessary. No outlet box supplied up to 8 lamps. Eight lamp stations or over, special outlet box supplied. Standard 2-lamp station requires an outlet box with 2-gang cover with opening $2\frac{7}{8}$x$3\frac{35}{64}$ inches.

Standard finish is brush brass or white enamel.

NURSES' STATION ANNUNCIATORS



No. 7042

Nurses' station annunicators, for flush or surface mounting, indicate the room or bed calling. Recommended for use when 8 or more lamps are required. Replaceable individual marking plates for up to 6 characters, indicating origin of call. Mild-toned buzzer inside case has a silencing switch mounted on exterior trim. Emergency feature with additional bell available. Hinged door for easy access to individually partitioned sockets and terminals. Special wall box with knockouts provided for flush mounted units. Standard finish white enamel.

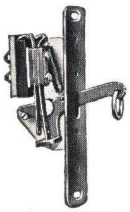
No.	Description	Price
7042	Flush type Nurses' Station Annunciator	$ .....
7052	Surface type Nurses' Station Annunciator	.....

Price on application.

EDWARDS PUSH BUTTONS

TAPESTRY BELL PULL SWITCH

Schedule S



Designed to allow the use of bell ropes or tapestry ribbons rather than push buttons, for bell and annunciator systems in residences and apartments following Old Colonial, Italian or English style of interior. Has positive self-cleaning contacts that assure dependable service. Mounts in the wall usually near the ceiling. Fits any standard single gang switch box or cover. No face plate is furnished, thus permitting the use of any standard single gang toggle switch plate of brass, glass, bakelite, etc., as may be desired. Split ring is fastened to end of operating lever for easy attachment of rope or tapestry ribbon.

Price, No. **280** Pull Cord Switch.....each **$15.00**

FORGED ENTRANCE PUSH

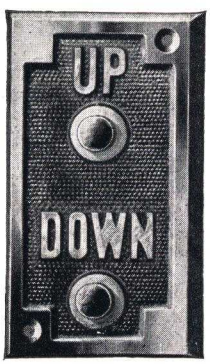
Schedule C



Solid cast brass push button for apartments, residences, etc. Its sturdy mechanism is securely riveted to the solid brass case making the push all one piece. Easy connections are made direct to two large screws on the back of the push. The mechanism is entirely insulated and can be mounted on metal trim. Oval head brass wood screws are furnished with each push. Standard finish is brush brass; No. 650G, chrome.

No.	Height In.	Width In.	Depth In.	Std. Pkg.	Price Each
650	$3\frac{3}{4}$	$1\frac{1}{8}$	$\frac{5}{8}$	1	**$1.90**
650G	$3\frac{3}{4}$	$1\frac{1}{8}$	$\frac{5}{8}$	1	**2.50**

No. 159 ELEVATOR CALL BUTTONS



Schedule S

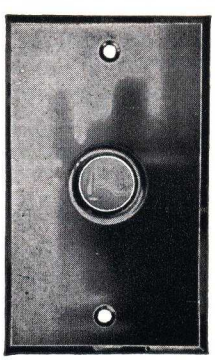
Designed for use with Edwards annunciators or any standard make annunciator.

Case is iron, finished in black, for surface mounting. Other commercial finishes, add 50 per cent.

No.	Description	Wt. Lbs.	Price Each
159	Up & Down	$1\frac{5}{8}$	**$10.00**
159U	Up Only	$1\frac{5}{8}$	**8.50**
159D	Down Only..	$1\frac{5}{8}$	**8.50**
159X	Plain	$1\frac{5}{8}$	**8.50**

SWITCH BOX PLATE

Schedule C



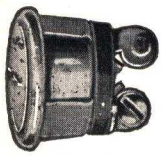
For standard switch box. Drilled for 1, 2 or 3 buttons $\frac{5}{8}$-inch. Screw hole centers $3\frac{9}{32}$ inches. Machine screws furnished. Plate does not include push buttons.

No.	For No. of Buttons	Std. Pkg.	Price Each
147	1	1	**$0.50**
147	2	1	**.75**
147	3	1	**1.00**

EDWARDS PUSH BUTTONS

Schedule S

LOW-VOLTAGE PUSH BUTTONS



No. 59

Flat Pearl Centers

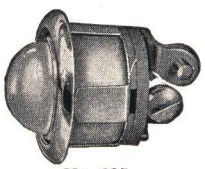
Phosphor-Bronze springs, self-cleaning contacts. Spring clips hold push in hole. Standard finish, nickel. Brushed brass, no extra charge.

No.	Description	Std. Pkg.	Price Each
620	Insulated—fits ⅝-in. hole	12	**$0.47**
59	Insulated—fits ¾-in. hole	6	**1.00**

LOW-VOLTAGE PUSH BUTTONS

Rounded Raised Centers

Same mechanism as No. 620. Furnished with white round center only. Standard finish of rim, nickel. Brush brass if specified, no extra charge.



No. 625

No.	Center	Std. Pkg.	Price Each
625	White	6	**$0.80**

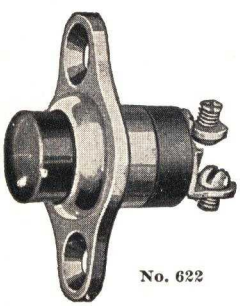
LOW-VOLTAGE PUSH BUTTONS



No. 621

Protruding Centers

Insulated type. Same fine mechanism as No. 620. No. 623 has locknut to hold push firmly on panels and places where there is heavy vibration such as planes, boats, trains, etc. No. 623 is usable only where access to back is possible to set up locknut. Standard finish of rims, nickel. Brushed brass if specified, no extra charge.



No. 622

No.	Fits Hole Inches	Std. Pkg.	Price Each
	With Spring Clips		
621	⅝	6	**$0.95**
	Forced Fit		
116	½	3	**2.25**
	With Escutcheon		
622	9/16	6	**1.30**
	With Locknut		
623	⅝	6	**1.20**

BAKELITE PEAR PUSH

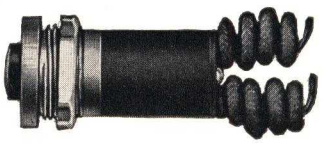
Keep its fine finish indefinitely, will not warp, check or crack. Equipped with No. 620 push. Standard package, 1.



No.	Description	Price Each
67	Black	**$1.00**
67-M	Mahogany	**1.00**
67-W	White Enamel	**1.30**

EDWARDS PUSH BUTTONS

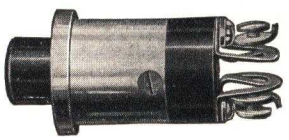
HIGH-VOLTAGE PUSH BUTTONS



Underwriters' Approved, 125-250 volts, 1 amp. Strong, sturdy, quick make and break. Fits ⅞-inch hole. Has locknut for fastening to plate or panel. Schedule S.

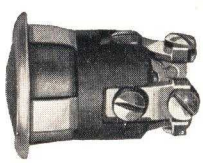
No.	Description	Price Each
850	As described	**$3.30**
851	Pendant Push, Bakelite Case	**7.00**
852	Weatherproof on Switch Plate	**5.60**

A quick break push with heavy contacts. Standard finish, nickel. Brush brass at no extra charge. Schedule S.



No.	Voltage	Type	Fits Hole	Std. Pkg.	Wt. Oz.	Price Each
85	125	Standard	¾	1	4	**$4.00**
85-A	250	Standard	1⅛	1	4	**10.00**
85-L	125	Locknut	⅞	1	4	**4.40**
85-C	125	Closed Cir.	1⅛	1	4	**14.00**

LOW-VOLTAGE MULTIPLE-CONTACT PUSH



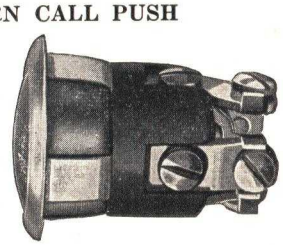
Insulated. Four contact springs on which plunger makes contact. May be wired to operate 3 separate circuits with one common wire or strapped together to close 2 circuits with double contact capacity. Schedule C.

Standard finish—nickel plate or brush brass.

Multiple Circuit — No.	For Hole	Price Each	Closed Circuit — No.	For Hole	Price Each
260	¾	**$2.10**	**260-C**	¾	**$3.10**

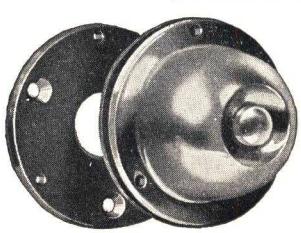
No. 265 RETURN CALL PUSH

So constructed that it breaks one circuit and makes another circuit. Used in return call and other systems to save additional wiring. Standard finish, nickel. Brush brass, no extra charge. Black center.



No.	For Hole In.	Std. Pkg.	Schedule	Price Each
265	¾	1	C	**$2.90**

WATERTIGHT PUSH



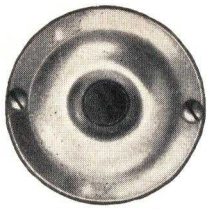
Solid brass push button for use outside of buildings, industrials, for marine work, ice plants, chemical plants, etc. No. 1786-C has a solid brass conduit plate threaded to fit ½-inch conduit. Standard package, 1.

No.	Diam. of Base, In.	Diam. of Body, In.	Schedule	Depth In.	Price Each
1786	2⅜	1⅝	S	1 3/16	**$6.00**
1786-C	2⅜	1⅝	S	1 5/16	**8.50**

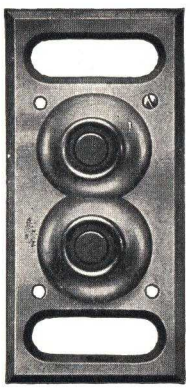
EDWARDS STAMPED SURFACE PUSHES

SATIN BRASS FINISH

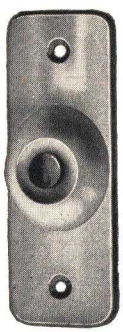
Schedule S



No. 600 (2 5/16" Dia.)
No. 603 (1 5/16" Dia.)



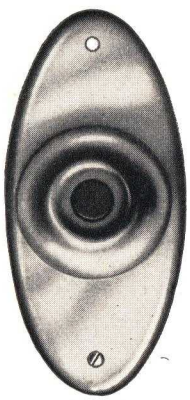
No. 602



No. 605



No. 606



No. 609

No.	Description	Std. Pkg.	Wt. Lbs.	Price Each
600	2 5/16" Dia. Round Push	12	1	$0.27
602	2"x4 9/16" 2 Name Card Holder	6	¾	.60
603	1 5/16" Dia. Small Round Push	12	¾	.27
605	1¼"x3½" Narrow Rectangular Type	12	1	.45
606	1 9/16"x2⅜" Small Elliptical Type	12	¾	.33
607	2 1/16"x2⅝" Rectangular Card Holder	12	1	.40
608	2 1/16"x4½" Wide Rectangular Type	12	1½	.55
609	2 1/16"x4½" Large Oval Type	12	1½	.55

PUSH BUTTON ESCUTCHEON PLATES

Schedule S



No. 62D



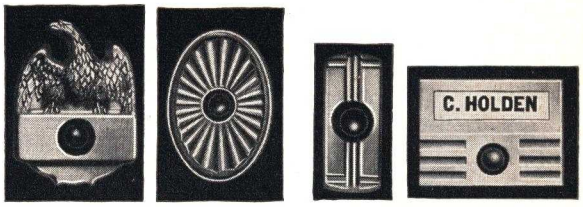
No. 62

These plates present fine appearance when used with flat center or protruding push button. Price of plate does not include push button. Standard finish: Nickel or brush brass as specified. For ⅝-inch pushes only.

No.	Width In.	Height In.	Std. Pkg.	Price Each
62	1¼	2	6	$0.50
62D	1½	2¼	6	.50

EDWARDS SCREWLESS PUSHES

Schedule S



No. 630 No. 631 No. 632 No. 633

No. 630 makes an attractive feature for all colonial type doorways. No. 631 is decorative but conservative. It is ideal for plaster walls as well as front entrances. No. 632 is smart and conservative and particularly adapted to narrow spaces.

No. 633 is the latest word in cardholder type pushes. Conservative, yet smart enough for the door way of any home, apartment or office. Packed in each box is a card including printed names, numbers and letters such as — Doctor, Dentist, Night Bell, Ring-Then-Enter, etc., for the most common uses. Perforations permit labels selected to be removed from card and inserted in holder with ease.

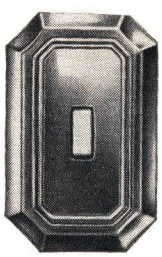
No.	Description	Wt. Oz. Std. Pkg.	Std. Pkg.	Price Each Antique Brass	Price Each *Chrome
630	Eagle, Colonial Type	6	8	$0.50	$0.65
631	Oval, Decorated Type	6	8	.50	.65
632	Slim Type	6	4	.35	.50
633	Cardholder Type	6	8	.60	.75

*Suffix the letter "G" to catalog number.

EDWARDS CAST ENTRANCE PUSHES

Solid Brass—Screwless

Schedule M



No. 642



No. 640



No. 641

The latest development in entrance push buttons. Solid brass casting, highly polished to a mirror-like finish. Lacquered for lasting brilliance. Newly designed construction permits push to be mounted in any hole ⅝ inch and larger. Shell white rectangular center is easily depressed giving positive contact directly on to large terminal screws. Molded shell containing mechanism insulates this push button.

One piece mechanism screws into door jamb or molding (screws are furnished) and cast escutcheon snaps firmly into place, being held by two extra strong fasteners. Cast escutcheon cannot be removed or mechanism tampered with without inserting screwdriver into slot in bottom and prying apart.

No.	Type	Escutcheon Plate Wdth.	Hght.	Thick.	Std. Pkg.	Price Each
640	Rectangular	1	2¼	⅝	3	$1.50
641	Oval	1 2/16	2½	⅝	3	1.50
642	Octagonal	1 11/16	2½	⅝	3	1.50

EDWARDS DESK PUSHES

No. 197 BAKELITE DESK PUSH

Schedule S



Has phosphor-bronze scraping contacts and is fully insulated. Base is covered with soft sponge rubber.

Has changeable name cards. Standard color, black.

No. of Buttons	No.	Std. Pkg.	Price Each	No. of Buttons	No.	Std. Pkg.	Price Each
1	**197-T**	1	**$7.80**	4	**197-T**	1	**$13.75**
2	**197-T**	1	**9.60**	6	**197-T**	1	**21.00**

ALL-METAL DESK PUSH

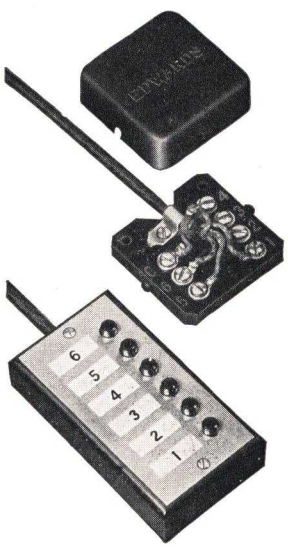
Schedule S

Furnished in three types: completely wired with cord and connector; with 6-ft. cord only; and desk push only. Heavy-gauge steel body, Bonderized. Used for desk top, but mounting holes are provided for wall mounting, surface or concealed wiring.

Molded center. Completely insulated. No. 192 permits one row of buttons for up to 10-button size. 12-button and larger sizes in double rows. Black center pushes.

Standard finish: Black with Satin nickel top-plate.

Standard package 1.



No. of Buttons	Without Cord No. 192	Without Cord No. 194	No. of Buttons	Without Cord No. 192	Without Cord No. 194
1	**$ 9.70**	**$16.50**	8	**$26.00**	**$50.00**
2	**12.00**	**18.25**	10	**30.50**	.....
4	**16.80**	**26.25**	12	**42.00**	.....
6	**21.00**	**38.00**	...	.....	.....
Larger sizes, add per button.....		**3.50**			**4.00**

EDWARDS DESK PUSHES

No. 146 PUSH BUTTON BLOCK

With Numbered Pushes

Schedule S



Of molded bakelite with removable weighted base and a sponge rubber pad. Flush numbered midget pushes supplied with the block. Can be mounted on the side of a desk with the use of concealed mounting hole provided for that purpose.

Standard finish: Black.

Special engravings, initials or names may be made. Details on application.

No. of Buttons	Std. Pkg.	Without Cord	No. of Buttons	Std. Pkg.	Without Cord
1	3	**$3.60**	4	3	**$6.30**
2	3	**4.30**	6	3	**9.10**

EDWARDS FLOOR PUSHES

Schedule S

DIXIE FLOOR TREAD

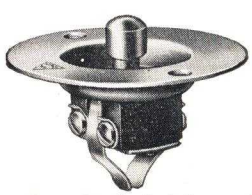


Recommended as a dining room push for calling servant during meals. Contact easily made by pressure at any point. Rubber-covered base prevents push from sliding. The connectors are firm and reliable. The complete device is designed for quick, easy installation. Cord enters through brass strap which hold it securely. Standard finish, satin brass. Standard package, 3; weight, 1 pound.

Price, No. **290** Dixie Floor Tread.....each **$2.00**

RECEPTAPLUG AND FLOOR PUSH





For non-carpeted floors or rugs. Generally found where No. 290 floor tread is used beneath floor-covering and can be reached to change its position. A compact attachment plug for use with No. 290 floor tread. Included in package is a center pin so the unit may also be used as a floor push.

Receptacle mortises into floor. Rubber-capped plug is inserted flush into receptacle, leaving no "bulge." Recommended installation is combination of No. 235-290. (It may be shipped complete in one package.)

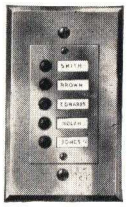
Plug will not fit standard lighting receptacle, thus preventing the possibility of shorting lighting line.

Standard finish, satin brass with brown rubber caps. Standard package 3; weight, 8 ounces.

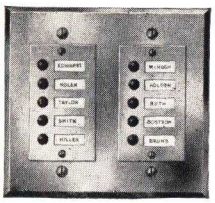
Price, No. **235** Receptaplug with floor push for non-carpeted floors.....each **$1.70**
Price, Plug only for No. 235.....each **.70**

EDWARDS PUSH BUTTON PANELS

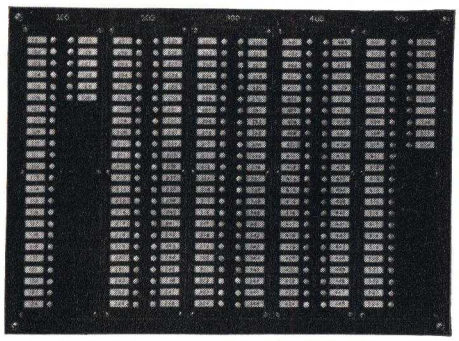
Schedule C



No. 107-5 Button



No. 107-10 Button





A compact, sturdy, reasonably priced push button panel designed to meet the requirements of small schools, public buildings, offices, etc., where no "all" or "master" push button is required. This panel is ideal where space is limited and where economy is a factor. For example: 1 to 5 buttons inclusive are mounted on a plate to fit a standard single-gang switch box.

Sizes 6 to 10 buttons inclusive are mounted on a plate to fit a two-gang switch box. 11 to 15 buttons are mounted on a plate to fit a three-gang switch box. Price does not include back boxes. Larger sizes are provided with a steel wall box, for flush mounting. Terminal board is provided suitable for mounting in back box and is wired to panel on sizes 16 buttons and larger. Lower illustration shows a panel which would accommodate 240 buttons and yet the size is only 17½ inches wide by 13 inches high.

Standard is brushed brass. Any solid spray finish no extra charge if specified. For chrome, add 50 per cent.

No.	Description	Price
107	3 to 15 Buttons, per Button	**$4.00**
107	16 Buttons and Up, with Wall Box, per Button	**6.00**

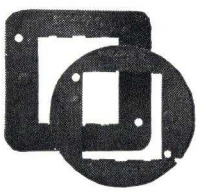
EDWARDS DOORBELL, CHIME AND SIGNALING TRANSFORMERS

Schedule S

Each Edwards Doorbell and Chime transformer is designed for a special purpose. All may be used on either round or square outlet boxes. 60-140 cycles.



No.	Volts Pri.	Volts Sec.	Watts	Std. Pkg.	Price Each
86†	115	10	5	6	**$1.92**
86-X†	115‡	10	5	6	**3.88**
86-Y†	230	10	5	6	**2.52**
		Chime Type			
878†	115	14	10	6	**3.40**
879	115	14	10	6	**2.70**
879-Y	230	14	10	6	**3.50**



PLATES

No.	Style	Std. Pkg.	Wt. Lbs.	Price Each
862†	Round	6	1	**$0.50**
863†	Square	6	1	**.50**

†Underwriters' Listed. ‡25-50 cycles.

TRI-VOLT TRANSFORMERS

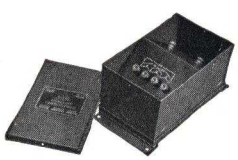
Tri-volt transformers allow a more selective secondary voltage. Particularly adapted for unusually long lines.



No.	Primary Volts	Primary Cycles	Std. Pkg.	Pkg. Wt.	Price Each
874	115	50-60	6	7½	**$2.70**
874-Y	230	50-60	6	7½	**3.50**
872	115	50-60	1	2¼	**5.30**

SIGNALING TRANSFORMERS

Enclosed Standard—Schedule S



Designed to have more wattage capacity, and supplied with a greater number of low voltage taps than the bell type.

These transformers have a wide secondary range of 4-8-12-16-20-24 volts.

115 Volts—60 Cycles

No.	Watts	Overall Dimens. Hght.	Wdth.	Lgth.	Approx. Wt. Lbs.	Price Each
88-50	50	4½	3⅝	7⅞	6½	**$8.90**
88-100	100	4 7/16	4⅝	8⅝	8¾	**14.25**
88-250	250	6	5⅛	9½	15	**36.75**
88-500	500	6½	6½	12⅛	38	**57.00**
***7194**	750	6½	7½	14½	42	**62.00**
***7195**	1000	6½	9¾	14½	58¼	**80.00**

*Schedule C discount applies to Nos. 7194 and 7195.

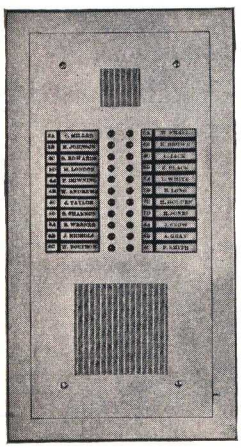
Ratings apply to 24-volt tap. Proportionately less watts are delivered on lower voltage taps: example, No. 88, 50 watts at 24 volt, and only 25 watts at 12 volt.

EDWARDS APARTMENT HOUSE TELEPHONES

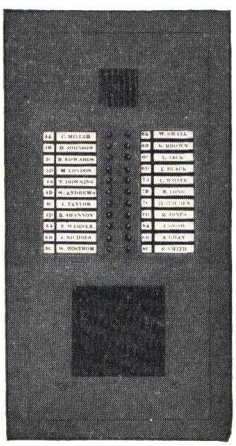
This new modernized line of Apartment House Telephones permits neat, attractive, efficient installations. Mechanically, the system is perfect — no "tincanny" nor weak transmissions. The finish of the face plates satin brass.

There is an Edwards Telephone System for every apartment requirement whether simple or complex — irrespective of the number of entrances. Details supplied on receipt of complete specifications — or the engineering department of this company will furnish a general specification for the particular requirements.

Vestibule Telephones



A 22 Button Cordless Unit



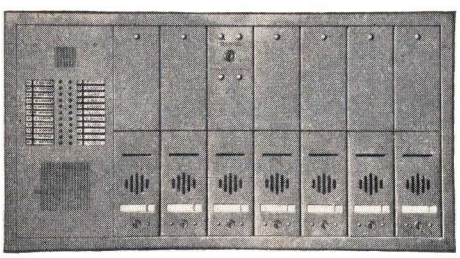
Night View to Show Clear Illumination

These new units are a complete innovation from every standpoint and have many advantages in appearance, operation and installation.

The name directions are on the sub-plate and names are clearly visible through glass windows — but are not accessible to the tenants. The names are protected from dust and dirt and can be kept sightly at all times.

Indirect illumination can be provided so the complete directory of names stands out in clear relief. The light does not shine through the card — so any type of card may be used. The apartment number designation is furnished as ordered with each unit and remains permanently in its correct position. The cordless units are of new design using radio type cone speakers. The voice transmission is clear and full — not "tincanny" as most units in the past.

The wall box has ample room for convenient wiring and combination ½"–¾" knockouts on all sides. Wall box may be shipped in advance of mechanism and terminal block.

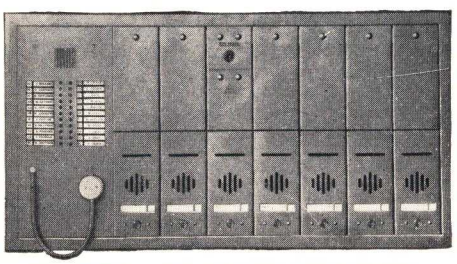


No. 2601 Cordless Loud Speaking Vestibule Unit with Mail Boxes

The sub-plate is strongly cabled and laced to the back of the terminal strip with soldered connections. The sub-plate can hang by its cable while easy front connections are made to complete the job. The sub-plate is then attached to the wall box and the finished plate mounted overall.

The face plate is easily removable whenever the superintendent wishes to change a tenant's name. The lighting is on the ringing circuit. 24-volt lamps will be furnished, if specified, at no extra charge.

When direct current is used for ringing, a trickle charger and storage battery should be used to supply current for illuminating the directory. A separate switch can be mounted at convenient point to extinguish the illumination of vestibule unit during daytime. This switch is not included in the price of the Vestibule Unit.



No. 2611 Receiver and Card Type Vestibule Unit with Mail Boxes

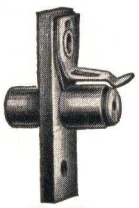
Where lobby plans permit, the Vestibule Unit should be installed alone. The appearance is better, the cost of installation lower and there is less chance for confliction in jurisdiction of the various trades. However, the Vestibule Unit is furnished in the same frame as the Mail Boxes where this type installation is feasible. Also available with armored cord instead of loud speaking.

For janitors' instruments, trade entrance units, etc. — details on application.

EDWARDS BURGLAR ALARM DEVICES

BURGLAR ALARM SPRINGS

Schedule S



No. 34 Door



No. 236 Trip

Open Circuit Springs

No.	Description	Size Plate	Std. Pkg.	Price Each
34	Door	2 x ⅝	6	$0.60
38	Make and Break	2 x ⅝	6	.60
236	Door Trip	2¼ x 1¼	3	1.90

Closed Circuit Springs

39	Door	2 x ⅝	6	.60

LOCK SWITCHES

Schedule S



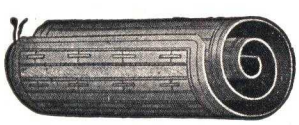
No. 95B

Mounted outside door to allow person with key to enter without sounding alarm.

No.	Description	Price Each
95B	Complete with Rod	$13.50
95	With Screw Mounting Plate, No Rod	10.80
95A	Two Locks	21.50
	Additional pair of keys	1.50

ELECTRIC MATTING

Schedule C



For use in open-circuit systems to protect entrances, stairways, etc., that are otherwise difficult to protect. Can be placed under carpets or other places where foot pressure will close contact. Full length roll can easily be cut into any lengths desired on the job, but the width cannot be changed.

Standard package, 1 full roll, 10 feet long, 2 feet wide.

Price, No. **36** Electric Matting, per sq. ft.....**$4.50**

EDWARDS BURGLAR ALARM DEVICES

ALL-PURPOSE CONTACTOR

Schedule S



This ingenious device has long been needed to replace the confusing collection of old-fashioned "springs." It is not cheaply made but instead is designed for hard service with pure phosphor-bronze scraping contacts, genuine Vulcoid insulation and heavy brass casing and moving parts.

Unlike all old-fashioned springs, it is scientifically designed so that pressure from any direction will depress the nosing. The radial action of the nosing requires but easy pressure. The contactor may be installed in any position.

The contactor fits a ¾-inch hole. Overall is 1⅝ inches high, 1⅝ inches deep, including flanges. It need not be mortised except in remote instances where the door or window is a very tight fit. Flat head brass screws are supplied. While it may be used the same as old window and door springs, its universal action makes it more flexible.

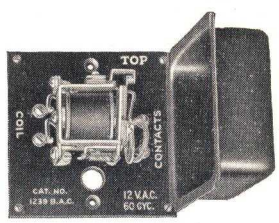
No.	Description	Price Each
44	Pressure on nosing opens circuit	$1.00
45	Pressure on nosing closes circuit	1.00
46	Momentary Contact. Pressure on nosing makes — then breaks circuit and repeats operation in returning to normal	1.00

Standard package, 6.

No. 1239 BURGLAR ALARM RELAYS

Enclosed type. Small, compact, reliable. Contact capacity varies from 1 to 6 amperes, according to voltage.

Standard package 1.



Burglar Alarm Relay Open Circuit

No.	12-Volt 60 Cy.	Up to 25V. A.C.	115 Volt	Other Volt. up to 48 DC or 60c AC
1239-F	$10.00	$10.00	$11.00	$13.00

Burglar Alarm Closed Circuit

1239-B	10.00	10.00	11.00	13.00

CONSTANT RINGING DROP

Schedule S



To cause any alarm to ring continuously until drop is reset. 6-8 volts D.C., 8-12 volts A.C.

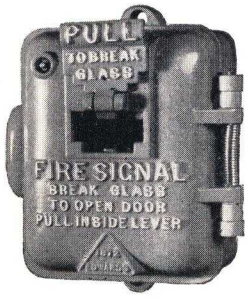
No. 26 cuts own magnet out of circuit, reducing battery drain.

Price, No. **26**.....each **$5.30**

EDWARDS FIRE ALARM SYSTEMS

Schedule C

No. 1275 STANDARD CODE STATIONS

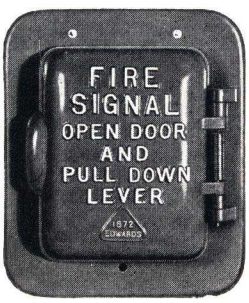


No. 1275 for use in closed circuit fire alarm systems. Mechanical movement is simple in design; gear wheels are cut. Separable conduit attachment. Code sounded 4 times at each operation. When lever is released it automatically disengages. No winding necessary.

No.	Description	Size Box., In. Hght.	Wdth.	Dpth.	Price Each
1275	For Surface Conduit	7⅝	5⅞	5	**$75.00**
1275–2	For Surface Conduit	7⅝	5⅞	5	**85.00**

No. 1276 STANDARD CODE STATIONS

No. 1276 for use in closed circuit fire alarm systems. Gear wheels are cut. Separable conduit attachment. Code signal sounded 4 times at each operation. When lever is released it automatically disengages. No winding necessary.



Cover of box provided with spring hinge. Overall size height, 6⅜ inches; width, 5 9/16 inches; depth, 3¼ inches.

No. 1276-2 same as No. 1276; locked door with glass window is substituted, making 2 operations to sound alarm. Breaking glass opens door; pulling lever sounds alarm.

No.	Description	Wt. Lbs. Each	Price Each
1276	For Concealed Conduit	12	**$75.00**
1276–2	For Concealed Conduit	12	**85.00**

PRE-SIGNAL CODE STATIONS



No. 1275-2DO

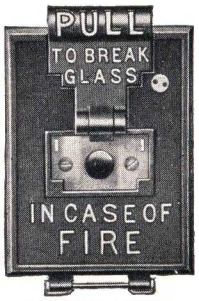
For use in pre-signal, closed circuit fire alarm systems. Same construction as Nos. 1275 and 1276, except that signal is sounded at pre-determined place only, allowing investigation after which general alarm can be sounded by inserting key and pulling lever at any station.

No.	Description	Price Each
1275-DO	Pre-signal Code Station	**$85.00**
1276-DO	Pre-signal Code Station	**85.00**
1275-2DO	Pre-signal Code Station	**95.00**
1276-2DO	Pre-signal Code Station	**95.00**

EDWARDS FIRE ALARM SYSTEMS

FIRE AND EMERGENCY STATIONS

Schedule C



No. 227 or 227C

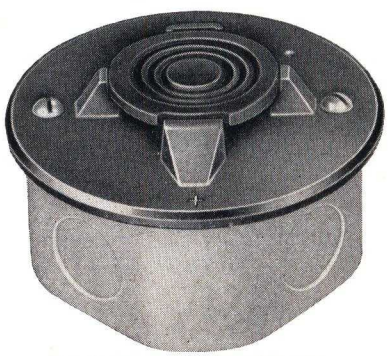
These stations replace the unsightliness and nuisance of hammers and chains. Underwriters' approved. First pull lever breaks glass, allowing plunger to come into alarm position. Lever falls down, displaying arrow signal and words "Replace Glass." Bumping lever will not cause accidental alarm. Emergency types ideal for swimming pools, electric stations, etc. Specify whether Fire station or Emergency station desired. 60-125 volts. Test key allows hinged front to open without breaking glass. Size 3 7/16 x 5 3/16 inches fits any standard switch box. Red finish, aluminum letters.

No.	Description	Price Each
227	Flush-Open Circuit	**$18.00**
227C	Flush-Closed Circuit	**18.00**
228	Surface-Open Circuit	**21.00**
228C	Surface-Closed Circuit	**21.00**
***77**	Wood Back, (no test, low voltage, 3¼-inch diameter) with chain	**4.25**

*The "S" Schedule applies to No. 77.

AUTOMATIC FIRE ALARM STATIONS

Schedule C



No. 230 Mounted on Outlet Box

Where it is desired to have systems operate in event of temperature rise instead of being manually operated, automatic fire alarm stations may be employed instead of the break-glass non-code stations and may be used with any of the following systems: VOA, VOD, SSMR, SSAMR, CCVA.

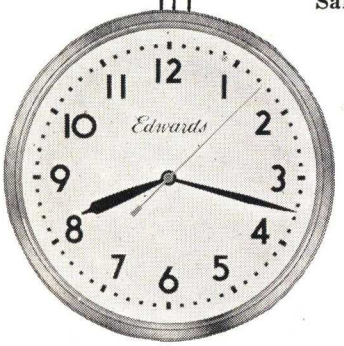
These stations are approved by the Underwriters' Laboratories. They are designed for attachment as a cover plate to a standard outlet box with mounting holes spaced 2¾ inches between centers. May be used as a part of a closed circuit supervised system or as part of a simple open circuit system as desired. Available in two types, No. 230 rated at 150° for normal temperatures and No. 231 rated at 212° for use near furnace or heater or other locations where high temperatures prevail.

Each automatic station will protect an area of 225 square feet of ceiling area. Stations should not be placed more than 7½ feet from walls nor more than 15 feet apart. In ordering give complete details regarding location of each station.

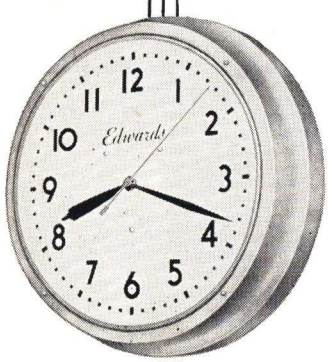
No.	Description	Price Each
230	Rated at 150 degrees	**$7.00**
231	Rated at 212 degrees	**7.00**

EDWARDS CENTRALLY-CONTROLLED CLOCK SYSTEMS

FOR SCHOOLS, COLLEGES, INSTITUTIONS, PUBLIC BUILDINGS AND INDUSTRY



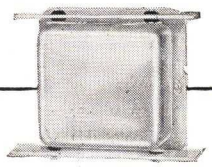
Classroom Clock



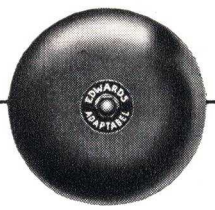
Classroom Clock

Salient Features of Edwards Timekeeping Systems For Modern Schools

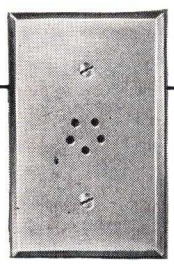
1. Quiet operation.
2. No local master clock is required.
3. Operate direct from the regulated alternating current.
4. Available for 115 volt or 24 volt operation.
5. Each timekeeper equipped with self-starting sealed-in-oil rotor, bi-pole, synchronous motor.
6. No oiling, cleaning, winding or regulating.
7. Available for individual installation or as part of an Edwards centrally controlled system.
8. Clocks furnished with sweep second hands.
9. Clock hands move continuously around the dial.
10. National Board of Fire Underwriters' approved type construction throughout.



Classroom Chime

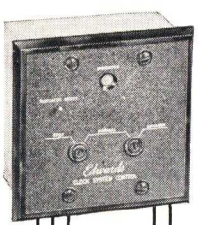


Corridor Bell



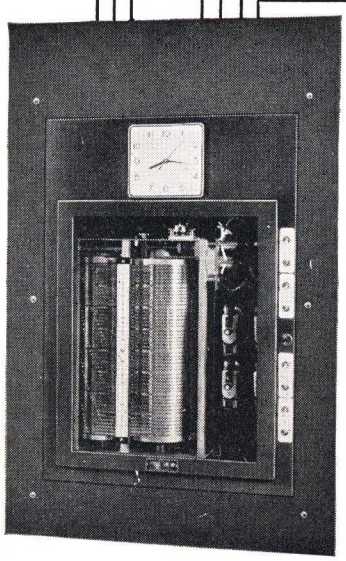
Classroom Buzzer

Typical Edwards (Manual Dual Motor Reset) System for a school with signals and control board.



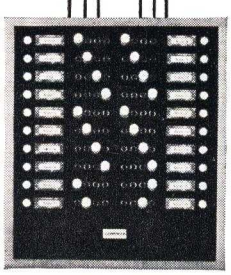
Central Control

To AC Supply



Multiple Circuit Program Instrument

Signal Supply



Signal Control Board

EDWARDS DOOR OPENERS

Schedule S

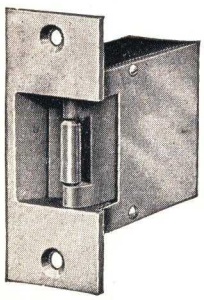
These door openers may be used on either right or left hand doors. Regular voltages 4½ to 6 volts D.C. Nos. 152 and 154 can be furnished for special voltages up to 115 volts. Prices on request.

No. 9 ECONOMY—MORTISE TYPE



Economy mortise type; solid brass nose and face plate. Made of heavy pressed steel, heavily brass plated. Used extensively for apartments. Fits the same size mortise as same shape openers of other manufacturers. Height, 3⅝ inches; depth, 2⅛ inches; thickness, 1 inch; nosing opening, 1⅜ inches; face plate, 5⅞ x 1¼ inches.

No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
9	6	5	**$4.10**



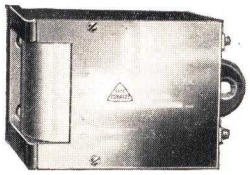
No. 154 MORTISE TYPE

Roller nose; for heavy doors; requires smaller mortise than Economy. Body height, 2 inches; depth, 2⅞ inches; width, 1¼ inches; nosing opening, 1¼ inches; face plate, 1¼ x 3⅜ inches.

No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
154	1	¾	**$9.00**

No. 152 RIM TYPE

Solid nose; for surface locks, thin doors, etc. Made of cast iron. Nose opening, 1¼ inches. Brass front.



No.	Dim., In. H.	D.	T.	Std. Pkg.	Price Each
152	2	3⅛	1⅛	1	**$7.00**

WORNER ELECTRONIC DEVICES

MODEL 5000 SERIES FOTOLECTRIC BURGLAR ALARM SYSTEM



Amplifier Model 5150-R

Model 5000 Series consists of a Light Source unit and an Amplifier unit. This combination is designed for interior use where a single beam is considered ample protection; it is not intended for use with protective devices such as foil systems, etc. Furnished for 110 volts. Amplifier Model 5150R (illustrated) is equipped with a scientifically engineered "unwanted light rejector," which materially increases the day-light range of the unit and makes it equal to the night-time range, if equipment is installed so that 90 per cent of the light reaching the Photo-cell is that generated by the Light Source.

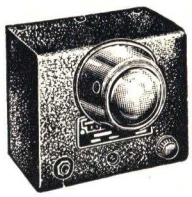
Model No.	Description	Range in Ft.	Price Each
5100	Single Beam Trespass Trap	100	**$75.00**
5150	Single Beam Trespass Trap	150	**95.00**

WORNER ELECTRONIC DEVICES

MODEL 9000 SERIES FOTOLECTRIC BURGLAR ALARM SYSTEM



Amplifier Model 9100-R



Amplifier Model 9150-R

This series consists of One Master Control Panel operating with one or more (up to 4) Fotolectric Light Source and Amplifier sets. The combination may be used with traps, foil systems and other equipment as used by professional burglar alarm companies, to operate audible or visible alarms.

Any interruption of the light beam operates whatever alarms the user wishes to install. The complete alarm circuit is supervised by the Master Control Panel which is remotely located for operator's convenience.

All Model 9000 series Amplifiers contain the following: Heavy duty, transformers 110-120 volt, 50 to 60 cycle, A.C. with dual secondary. Potentiometer type sensitivity control. Meter Jack to determine correct cut-off and plate current in Relay circuit. Electrolytic condensers. Double pole, double throw 5 amp. relay.

18 gauge steel construction, welded, gray wrinkle finish. Size: 7x6¼x4¼ inches. (Not weatherproof.)

Model No.	Description	Range Per Set	Price Each
9100	Master Trespass Trap.....	100 ft.	**$70.00**
9150	Master Trespass Trap.....	150 ft.	**90.00**
9250	Master Trespass Trap.....	250 ft.	**130.00**
9500	Master Trespass Trap.....	500 ft.	**225.00**



Control Panel Model 9000

9000 Control Panel, **$45.00** list, supplied with plate relays equal to the 9000 series Amplifiers ordered. If 9000 series Amplifiers are ordered without Control Panel, plate relay is supplied with Amplifiers to be mounted in Control Panel.

MODEL 7000 SERIES FOTOLECTRIC BURGLAR ALARM SYSTEM

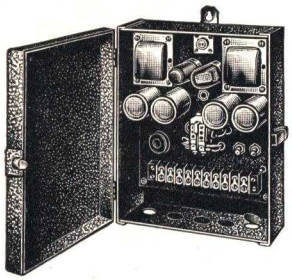
The Model 7000 series operates in conjunction with professional independent burglar alarm company's central office or local equipment.

The 7000 series Amplifiers are complete with the following scientifically engineered equipment: Tubes. Lenses. Heavy duty shielded Amplifier transformer 110-120 volt, 50-60 cycle, A.C. with dual secondary. Potentiometer sensitivity control. Meter Jack to determine correct cut-off and plate current in relay circuit. Electrolytic condensers. Single-pole, double-throw relay, self-wiping contacts rated at 5 amp. non-inductive at 110-120 volts, 50 to 60 cycle.

Model No.	Description	Range Per Set	Price Each
7100	Remote Cont. Trespass Trap	100 ft.	**$70.00**
7150	Remote Cont. Trespass Trap	150 ft.	**90.00**
7250	Remote Cont. Trespass Trap	250 ft.	**130.00**
7500	Remote Cont. Trespass Trap	500 ft.	**225.00**

WORNER ELECTRONIC DEVICES

MODEL 63 MASTER AMPLIFIER

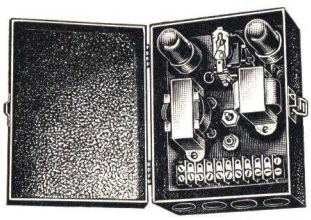


Model 63 Amplifier is especially designed for use with a correct combination of standardized Worner Photo-Cell and Light Source units. However, this Amplifier will operate also from Light Source units, such as daylight, artificial lights, radiant energy from metallic processing, etc.

Model 63 Amplifier is a specially engineered, highest quality unit. It enjoys wide preference as it efficiently meets 95 per cent of industrial requirments and replaces the need of costly individually engineered equipment. Technical details on request.

Price, Model **63** Master Amplifier.....each **$85.00**

MODEL 64 ECONOMY AMPLIFIER



This Amplifier is an economical unit for practically any industrial application where economy is a factor or requires a light beam distance of not more than 50 feet or where the Relay is not required to operate in excess of 250 times a minute. Can be furnished for greater distances or speed, technical details furnished on request.

Price, Model **64** Economy Amplifier....each **$56.00**

MODEL 62 R & L—AMPLIFIER AND LIGHT SOURCE SET



Model 62-R Amplifier



Model 62-L Light Source

This "two-unit" set has specially designed Light Source unit and an Amplifier unit that includes the Photo-Cell Receiver, Relay and other electrical controls. This combination has proved efficient for countless simple applications for distances from a few inches to 75 feet or where Relay is not required to operate in excess of 300 times a minute.

The "two-unit" set will supervise efficiently on a simple application, such as: Counting or sorting large objects: limit switches; start and stop operations; light density; fire protection; flame control; opening doors, etc.

Price, Model **62** R&L "Two-Unit" Set
.....per set **$70.00**

Model **62R** Amplifier only..... **58.00**
Model **62L** Light Source only..... **18.00**

WORNER ELECTRONIC DEVICES

LIGHT SOURCE UNITS AND PHOTO-CELL RECEIVER UNITS



Model 33



Model 23



Model 31



Model 21

The Light Source unit is designed to project the light beam and the Photo-Cell Receiver is designed to pick up the beam and convert its light into electrical energy through the Amplifier unit.

Model 33 Light Source is "standard" for general applications and is most generally recommended. Its light beam covers a distance from a few inches to 50 feet from Light Source to Receiver. Heavy duty, cast iron unit with ½-inch conduit fittings. Gray finish.

Model 23 Photo-Cell Receiver is engineered for use with Model 33 Light Source and has the same case specifications.

For use in damp surroundings, Models 33 and 23 can be made water-proof at slight additional cost.

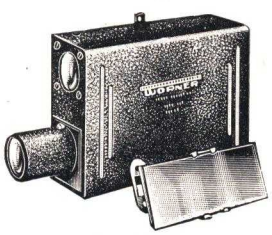
Model 31 Light Source is "standard" where a lighter weight case is practical. Its light beam covers a distance from a few inches to 25 feet from Light Source to Photo-Cell Receiver. Case is 18 gauge steel, gray crackle finish. Has ½-inch knockout.

Model 21 Photo Cell Receiver is engineered for use with Model 31 Light Source and has the same case specifications.

Model No.	Description	Size Inches	Price Each
33	Light Source Housing	4¼x2¾x2¾	**$11.00**
23	Photo-Cell Receiver	4¼x2¾x2¾	**16.00**
31	Light Source Housing	6⅝x2 x1¾	**9.00**
21	Photo-Cell Receiver	6⅝x2 x1¾	**14.00**

FOTOLECTRIC ANNOUNCER

Automatically Announces the Entrance or Passing of Any Object



Model 61-A

The Photolectric Announcer unit is designed to project a "beam of light" across any entrance to any room, building or premises. The breaking of this light beam by any person entering will activate a chime or other sound to automatically announce the entrant. Can serve countless purposes and solve most entrance problems efficiently.

Model 61 Fotolectric Announcer includes Light Source and sensitive Photo-cell units in one compact metal case, finished in black crackle lacquer. Size, 10¾x7½x2¾ inches.

Price, Model **61** Announcer, with Chime .....each **$31.25**

Model 61-A Fotolectric Announcer, the same unit as described above except that it is equipped with an optical system to arrest unwanted light.

Price, Model **61-A** Announcer, with Chime .....each **$34.25**



Relay for Panel Mounting

Benjamin
TELECODE
Relays

Listed by Underwriters' Laboratories

In factories, mines, quarries, foundries, machine shops, etc., where there is a great volume of noise, the ordinary telephone bell can seldom be heard. With the aid of the Telecode Relay it is possible to utilize Benjamin Industrial Howlers on any type of telephone system. Telephone efficiency is not affected.

Mechanism—The contacts on the Benjamin Telecode Relay are of tungsten for long service, while the coils are form wound, with moisture-proof coverings and carefully impregnated. The relay is equipped with two shading coils which insure quiet operation and prevent fluttering.

Open, Closed and Locking Types—Telecode Relays are supplied with contacts arranged for open circuits (contacts open until coil is energized); with contacts arranged for closed circuits (contacts closed until the relay is actuated by current flowing through the coils) and with locking armatures (special winding on coils locks the contacts when the relay is operated, giving continuous operation to signals until signal circuit is broken by a release switch).

Finish—Outside finish of all units is battleship gray enamel.

Condenser rated 1 mf. Condenser only is No. **8325**, List Price, **$5.50.**

Electrical Characteristics

Contact Capacity—Relays are rated **.8 ampere at** 110 volts, sufficient to operate five vibrating type howlers.

Coil Data—Standard coil windings are 1000 ohms for operation on 110-volt, 60-cycle A.C., or 18-volt D.C. circuits. For ringing circuits of standard telephone systems, relays should have same coil resistance as the bells of the circuit. In ordering, specify bell resistance or voltage and frequency of ringing circuit.

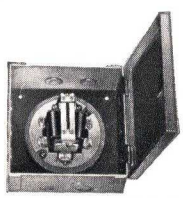
Extra charge of **$0.70** for special resistance windings.


For Panel Mounting

FOR PANEL MOUNTING

These relays have a bakelite base 4¼ inches in diameter, with two mounting screw holes spaced on 3½-inch centers.

Cat. No.	Less Condenser List Price	Description
8313-P	**$16.50**	Open Circuit
8313-C	**16.50**	Closed Circuit
8313-L	**18.60**	Locking Armature


With Pressed Steel Box

WITH PRESSED STEEL BOX

The hinged cover box supplied with these relays is 6″ x 6″ x 4″ in size with ½-inch knockouts on all four sides.

LESS CONDENSER		Description	WITH CONDENSER	
Cat. No.	List Price		Cat. No.	List Price
8315-P	**$16.50**	Open Circuit	**8316-P**	**$22.00**
8315-C	**16.50**	Closed Circuit	.....	.....
8315-L	**18.60**	Locking Armature	**8316-L**	**24.10**


With Explosion-Proof Box

WITH EXPLOSION-PROOF BOX

Suitable for Installation in Class I, Group D; Class II, Group G; Classes III and IV Hazardous Locations

The main section of the explosion-proof box supplied with these relays is **5½** inches in diameter and is regularly tapped ½-inch straight through standard; ¾-inch, when specified, at same price.

8319-P	**$22.00**	Open Circuit	**8320-P**	**$27.50**
8319-C	**22.00**	Closed Circuit	.....	.....
8319-L	**24.10**	Locking Armature	**8320-L**	**29.60**


With Water-Tight Box

WITH WATER-TIGHT BOX

The main section of the water-tight box supplied with these relays is 5½ inches in diameter and is regularly tapped ½-inch straight through standard; ¾-inch, when specified, at same price.

8322-P	**$19.90**	Open Circuit	**8323-P**	**$25.40**
8322-C	**19.90**	Closed Circuit	.....	.....
8322-L	**22.00**	Locking Armature	**8323-L**	**27.50**

SEYLER POLE LINE HARDWARE

Hot Galvanized

GROUND PIPE



Made from ¾-inch high grade steel pipe forged to a sharp point for easy driving. Galvanized inside and out. A plug driven six inches from the open end provides a pocket for solder, used to make the ground connection.

Cat. No.	Length, Ft.	Wt. Lb. Per 100
8500	8	980

GROUND RODS



Ground Rod with Wire

Made from high carbon open-hearth steel with a sharp point for driving. Furnished with or without copper wire. Wired rods have five turns of No. 12 wire soldered to rod with free end of 5 inches for attaching ground wires. The unwired rods are provided with holes 1 inch from the end for attaching ground wire running down pole. These holes are ⅛-inch in diameter for ⅜-inch rods, $\frac{5}{32}$ for ½-inch rods, and $\frac{3}{16}$ for ⅝ and 1-inch rods.

With Copper Wire

Cat. No.	Diam. In.	Lgth. Ft.	Wt. Lb. Per 100	Cat. No.	Diam. In.	Lgth. Ft.	Wt. Lb. Per 100
8505	½	5	332	**8516**	⅝	6	600
8506	½	6	380	**8538**	1	8	2200

Without Copper Wire

8555	⅜	5	185	**8576**	⅝	6	600
8556	⅜	6	223	**8577**	⅝	7	700
8565	½	5	315	**8578**	⅝	8	800
8566	½	6	380	**8598**	1	8	2133
8567	½	7	430	--------	------	--	--------

DRIVE CAPS



No. 8540

The easiest way to convert standard unthreaded pipe into ground pipe is by the use of this cap. It is simply slipped over the end of the pipe which is to be driven into the ground and with a few blows of the hammer it becomes firmly attached. The cap is so made that in driving it the tapered section on the inside spreads and an absolute contact is assured. The connection is then made by inserting the ground wire in the hole and filling same with solder.

Cat. No.	Size Pipe Inches	Wt. Lb. Per 100
8540	¾	90
8541	1	132
8542	1¼	275

DRIVE POINTS

Drive points are used with drive caps for driving standard unthreaded pipe. The point is inserted in the end of the pipe first and with the cap assembled at the other end a few blows of the hammer are given and both units are firmly seated. The pipe is then driven to the desired depth.



Cat. No.	Size Pipe Inches	Wt. Lb. Per 100
8550	¾	38
8551	1	50
8552	1¼	75

SEYLER POLE LINE HARDWARE

Hot Galvanized

COPPERWELD GROUND RODS



Copperweld ground roads have a heavy copper covering permanently and continuously molten welded to the steel core, and no amount of driving abuse can cause any separation of the copper from the steel core of Copperweld ground rods.

So-called non-rusting ground rods which have no weld between the copper and steel may have a shorter life than ordinary unprotected steel. In driving unwelded rods the blows of the driving hammer usually cause the copper to separate from the steel at the top end of the road. Moisture then finds its way in between the steel core and the copper jacket, and, because of the presence of copper, rapid corrosion of the steel core follows.

For long lived, dependable, trouble-free, non-rusting grounds, specify Seyler Copperweld ground rods.

Cat. No.	Size	Std. Pkg.	Wt. Lb. Per 100	Cat. No.	Size	Std. Pkg.	Wt. Lb. per 100
8415	⅜x 5	10	200	**8446**	¾x 6	5	930
8416	⅜x 6	10	240	**8447**	¾x 7	5	1085
8425	½x 5	10	340	**8448**	¾x 8	5	1240
8426	½x 6	10	410	**8449**	¾x 9	5	1395
8427	½x 7	10	480	**8450**	¾x10	5	1550
8428	½x 8	10	550	**8452**	¾x12	5	1860
8430	½x10	10	685	**8466**	1 x 6	5	1650
8435	⅝x 5	5	535	**8467**	1 x 7	5	1925
8436	⅝x 6	5	640	**8468**	1 x 8	5	2200
8437	⅝x 7	5	750	**8469**	1 x 9	5	2475
8438	⅝x 8	5	855	**8470**	1 x10	5	2750
8439	⅝x 9	5	960	**8472**	1 x12	5	3300
8440	⅝x10	5	1070	**8474**	1 x15	5	4130
8445	¾x 5	5	775	**8479**	1 x20	5	5500

COPPERWELD GROUND WIRE CLAMPS

(As illustrated on Ground Rod shown above)

Seyler copperweld ground wire clamps for attaching stranded or solid ground wires to the ground rods are furnished with either safety set screws or square head set screws. Five wrenches are furnished with each lot of 100 of the safety set screw type or one wrench with each 30. The exception to this is clamp No. 8496, where one wrench is furnished with each five clamps. Wrenches can be supplied separately.

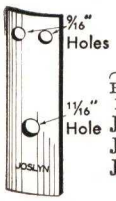
Cat. No. With Safety Set Screws	Cat. No. Square Head Set Screws	Rod Size In.	Size of Wire	Wt. Lb. Per 100
8490	**8590**	⅜	6-12 AWG	25
8491	**8591**	½	4-10 AWG	30
8492	**8592**	⅝	2- 8 AWG	55
8493	**8593**	¾	2- 8 AWG	75
8495	**8595**	1	2- 8 AWG	90
8496	--------	1¼	4/0-4 AWG	120

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

LIFT PLATES FOR ANGLE THIMBLEYE BOLTS

Used with ½-inch lag screws to increase load capacity of angle thimbleye bolts. All plates are 2½x7 inches curved on a 3-inch radius. Plates for ⅝-inch eyebolts have $\frac{13}{16}$-inch round holes; plates for ¾-inch eyebolts have 1x$\frac{13}{16}$-inch oval holes.

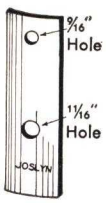


3-HOLE PLATES

Cat. No. For ⅝-In. Eyebolts	Cat. No. For ¾-In. Eyebolts	Thickness, In.	Wt. Lbs. Per 100
J7885	**J7889**	$\frac{3}{16}$	90
J7886	**J7890**	¼	123
J7887	**J7891**	$\frac{5}{16}$	141

2-HOLE PLATES

Cat. No. For ⅝-In. Eyebolts	Cat. No. For ¾-In. Eyebolts	Thickness, In.	Wt. Lbs. Per 100
J7896	**J7893**	$\frac{3}{16}$	90
J7897	**J7894▲**	¼	123



DROP FORGED EYEBOLTS

Length Measured Under Eye



½-Inch Diameter
Minimum Breaking Strength 8,000 Pounds

Cat. No.	Lgth. In.	Lgth. T'rd.	Std. Pkg.	Lbs. Per 100	Cat. No.	Lgth. In.	Lgth. T'rd.	Std. Pkg.	Lbs. Per 100
J9305	5	4	100	55	**J9313**	13	6	100	99
J9307	7	5	100	66	**J9315**	15	6	100	110
J9309	9	6	100	77	**J9317**	17	6	100	121
J9311	11	6	100	88	**J9319**	19	6	100	132

⅝-Inch Diameter
Minimum Breaking Strength 14,000 Pounds

J9405	5	4	100	102	**J9414▲**	14	6	50	167
J9406	6	5	100	109	**J9416▲**	16	6	50	181
J9408▲	8	6	100	123	**J9418▲**	18	6	50	196
J9410▲	10	6	50	138	**J9420▲**	20	6	50	210
J9412▲	12	6	50	152	**J9422**	22	6	50	225

¾-Inch Diameter
Minimum Breaking Strength 20,000 Pounds

J9506	6	5	50	174	**J9514▲**	14	6	25	252
J9508▲	8	6	50	193	**J9516▲**	16	6	25	271
J9510▲	10	6	50	213	**J9518▲**	18	6	25	290
J9512▲	12	6	50	232	.....	....	..	.....	.....

DROP FORGED DOUBLE ARMING EYEBOLTS

Length Measured Under Eye



⅝-Inch Diameter
Minimum Breaking Strength 14,000 Pounds

Cat. No.	Lgth. In.	Lgth. T'rd.	Std. Pkg.	Lbs. Per 100	Cat. No.	Lgth. In.	Lgth. T'rd.	Std. Pkg.	Lbs. Per 100
J9614▲	14	12	50	192	**J9618▲**	18	16	50	225
J9616▲	16	14	50	209	.....	....	....	....	.....

¾-Inch Diameter
Minimum Breaking Strength 20,000 Pounds

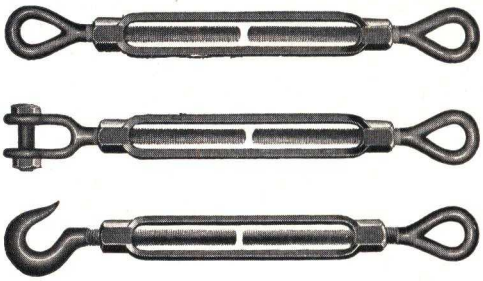
J9634▲	14	12	25	268	**J9638▲**	18	16	25	308
J9636▲	16	14	25	288	.....	....	....	....	.....

▲These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

DROP FORGED TURNBUCKLES



The body of this turnbuckle is a single piece forging. Furnished in 3 types of assemblies.

Size Bolt and Opening Inches	Type of Assembly: Eye & Eye Cat. No.	Eye & Hook Cat. No.	Eye & Clevis Cat. No.	Weight Pounds Per 100
⅜x6	**J1227**	**J1026**	**J1312**	79
½x6	**J1228**	**J1021**	**J1313**	168
½x9	**J1229**	**J1022**	**J1314**	190
½x12	**J1230**	**J1023**	**J1315**	320
⅝x9	**J1231**	**J1024**	**J1316**	320
⅝x12	**J1232**	**J1025**	**J1317**	395
¾x12	**J1234**	**J1027**	**J1318**	550

Strength in Pounds

Size.....Inches	⅜	½	⅝	¾
Eye and Eye.....pounds	4080	7560	12120	18120
Eye and Hook.....pounds	2290	3670	5400	7530
Eye and Clevis ....pounds	4080	7560	12120	18120

GUY HOOKS

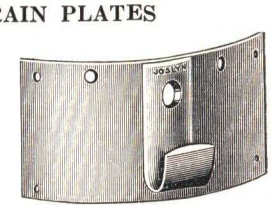


Used to prevent the strand from slipping on the pole where the pull is exerted at a sharp angle.

Cat. No.	Size In.	No. of Bolts	Wt. Lbs. Per 100
J1016	1¼x¼x3	1	30
J1017	1½x⅜x3½	1	55
J1018	1½x⅜x6	2	81
J1019▲	1¾x⅜x4	1	69

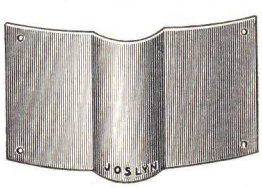
GUY HOOK STRAIN PLATES

The Guy Hook Strain Plate has the double function of preventing the guy strand from slipping down the pole and biting into the pole. The guy hook is firmly welded to the plate.



Cat. No.	Size In.	Standard Package	Wt. Lbs. Per 100
J6577	4 x 8 x No. 14 Ga.	100	130

MOULDING STRAIN PLATES



Used to prevent the guy strand from cutting or crushing the ground wire moulding. This plate is formed to fit over the N.E.L.A. standard 1-inch ground wire moulding.

Cat. No.	Size In.	Standard Package	Wt. Lbs. Per 100
J6576	4 x 8 x No. 14 Ga.	200	78

▲These items are R.E.A. Standard.

NATIONAL ELECTRIC BRACKETS AND WIREHOLDERS



SINGLE-POINT WIREHOLDERS

All-Porcelain Type

Cat. No.	Dimensions, Inches: Hght. of Insulator	Dia. of Insulator	Wire Hole	Std. Pkg.	Wt., Lbs., Per 100
5311	2⅞	1 15/16	⅝x¾	50	60
5211	3⅛	2 7/16	1 3/16x⅞	50	102

SINGLE-POINT RADIO WIREHOLDER

All-Porcelain Type



Cat. No.	Dimensions in Inches: Hght. of Insulator	Dia. of Insulator	Wire Hole	Screw	Std. Pkg.	Wt., Lbs., Per 100
511	2	1⅜	½	No. 14x1½	100	20



SINGLE-POINT WIREHOLDER

Cat. No.	Dimensions, in Inches: Hght. of Insulator	Hght. Above Base	Dia. Base	Wire Hole	Std. Pkg.	Wt., Lbs., Per 100
215-12-N	2⅝	3 3/32	1 1/16	15/16	50	75

SINGLE-POINT WIREHOLDER

Heavy Type



Cat. No.	Dimens., Inches: Dia. of Base	Hght above Base	Insulator	Std. Pkg.	Wt. Lbs. Per 100
106-1	3½	3 13/16	1⅞x2⅛	50	130



SINGLE-POINT WIREHOLDER

Spool Type

Cat. No.	Overall Length, Inches	Wire Groove, Inches	Std. Pkg.	Wt., Lbs., Per 100
107-1	5	1	50	50

KNOB-SCREW WIREHOLDER



Cat. No.	Overall Length Inches	Insulator Dia., In.	Insulator Hght., In.	Std. Pkg.	Wt., Lbs. Per 100
206	4½	1¾	1½	50	40

WIREHOLDERS—5000 SERIES



Cat. No.	No. of Insulators	Spacing, In.	Total Lgth., In.	Std. Pkg.	Wt., Lbs., Per 100
5001	1	....	3¾	25	100
5002	2	9	10⅞	20	212
5003	3	6	13⅞	10	300
5012	2	6	7⅞	20	205
5023	3	4½	10⅞	10	290

ACCESSORIES

5000 Series Wireholders



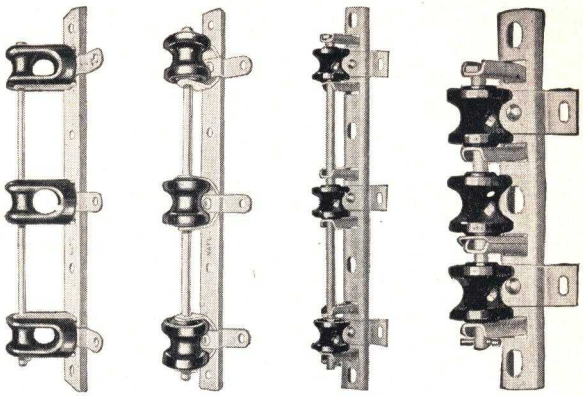
5020



5021

Cat. No.	Description	Std. Pkg.	Wt., Lbs., Per 100
5020	Insulator	25	63
5021	U-Bolt and Nuts	25	6½

NATIONAL ELECTRIC BRACKETS AND WIREHOLDERS



215-34 107-34 103-38X 102-34

Light-Type Wireholders

Cat. No.	No. of Insulators	Spacing Inches	Length Back Inches	Std. Pkg.	Wt. Lbs. Per 100
215-26	2	6	10½	10	245
215-34	3	4½	13½	10	340
Heavy-Type Wireholders					
106-36	3	6	17¾	10	454
Light-Spool-Type House Racks					
107-26	2	6	10½	10	175
107-29	2	9	13½	10	195
107-34	3	4½	13½	10	250
107-36	3	6	16½	10	270
Light U-Type Service Racks					
103-26X	2	6	13⅛	10	310
103-38X	3	8	23⅛	10	410
Heavy U-Type Service Racks					
102-34	3	4	16¾	10	654
102-34X	3	4	16¾	10	614
102-38	3	8	24¾	10	879
102-38X	3	8	24¾	10	729

HEAVY-TYPE SECONDARY RACKS



101-34

Standard Backs

Cat. No.	Insulators	Spacing, In.	Lgth., In.	Shpg. Wt. per 100
101-24	2	4	9⅜	370
101-34	3	4	13⅜	470
101-44	4	4	17⅜	620
101-54	5	4	21⅜	740
101-28	2	8	13⅜	470
101-38	3	8	21⅜	740
101-48	4	8	29⅜	1100
Extended Backs				
101-24X	2	4	13⅜	530
101-34X	3	4	17⅜	630
101-44X	4	4	21⅜	780
101-54X	5	4	25⅜	930
101-28X	2	8	17⅜	620
101-38X	3	8	25⅜	970
101-48X	4	8	33⅜	1230

INSULATORS



101



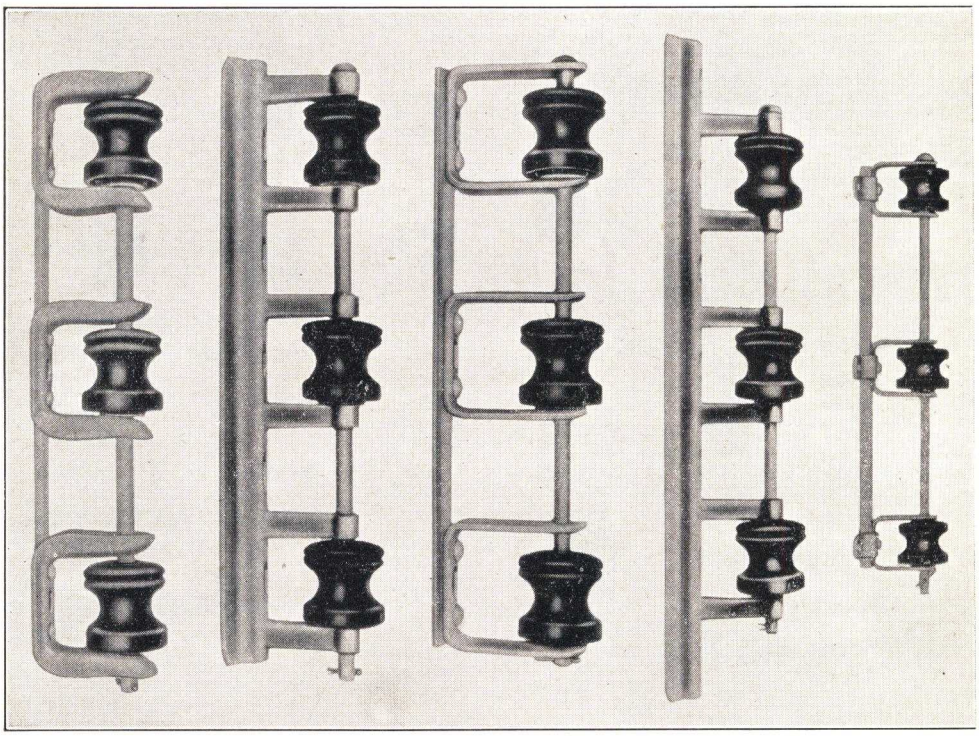
103



107

Cat. No.	Hght., In.	Dia., In.	Hole, In.	Wire Groove, In.	Std. Pkg.	Shpg. Wt. per 100
101	3	3⅛	11/16	.....	50	118
103	2⅛	2¼	5/16	1⅛	100	40
107	1¾	2	11/32	.....	100	30

PORCELAIN PRODUCTS SECONDARY RACKS



No. 123 No. 223 No. 423 No. 523E No. 623

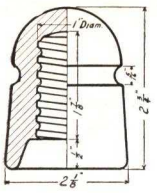
Cat. No.	No. of Insulators	Insulator Used	Spacing In.	O'erall Lgth. In.	Center Ins. to Bldg., In.	Back Wdth. In.	Wt.Lbs. Per 100
622	2	5206	9	11	2 1/16	3 3/4	240
623	3	5206	6 1/2	15	2 1/16	3 3/4	380
623-8	3	5206	8	18	2 1/16	3 3/4	395
624	4	5206	6 1/2	21 1/2	2 1/16	3 3/4	490
522E	2	5207	8	15 7/8	3 1/4	2 13/16	442
523E	3	5207	8	23 7/8	3 1/4	2 13/16	678
524E	4	5207	8	31 7/8	3 1/4	2 13/16	954
522E4	3	5207	4	15 7/8	3 1/4	2 13/16	482
523E4	5	5207	4	23 7/8	3 1/4	2 13/16	758
524E4	7	5207	4	31 7/8	3 1/4	2 13/16	1074
522E6	2	5207	6	13 7/8	3 1/4	2 13/16	350
523E6	3	5207	6	19 7/8	3 1/4	2 13/16	500
524E6	4	5207	6	25 7/8	3 1/4	2 13/16	680
122	2	5201	8	13 1/4	3 1/4	2 5/8	654
1224	3	5201	4	13 1/4	3 1/4	2 5/8	772
1226	2	5201	6	17 1/4	3 1/4	2 5/8	650
123	3	5201	8	21 1/4	3 1/4	2 5/8	979
1234	5	5201	4	21 1/4	3 1/4	2 5/8	1215
1236	3	5201	6	25 1/4	3 1/4	2 5/8	975
124	4	5201	8	29 1/4	3 1/4	2 5/8	1304
1244	7	5201	4	29 1/4	3 1/4	2 5/8	1658
1246	4	5201	6	35 1/4	3 1/4	2 5/8	1300
422	2	5201	8	12 3/8	4 1/2	1 7/8	662
4224	3	5201	4	12 3/8	4 1/2	1 1/8	765

Cat. No.	No. of Insulators	Insulator Used	Spacing In.	O'erall Lgth. In.	Center Ins. to Bldg., In.	Back Wdth. In.	Wt.Lbs. Per 100
423	3	5201	8	20 3/8	4 1/2	1 1/8	979
4234	5	5201	4	20 3/8	4 1/2	1 7/8	1215
424	4	5201	8	28 3/8	4 1/2	1 7/8	1334
4244	7	5201	4	28 3/8	4 1/2	1 7/8	1637
422E	2	5201	8	16 1/4	4 1/2	1 7/8	714
422E4	3	5201	4	16 1/4	4 1/2	1 7/8	815
423E	3	5201	8	24 1/4	4 1/2	1 7/8	1029
423E4	5	5201	4	24 1/4	4 1/2	1 7/8	1265
424E	4	5201	8	32 1/4	4 1/2	1 7/8	1384
424E4	7	5201	4	32 1/4	4 1/2	1 7/8	1687
222	2	5201	8	16	4 1/4	3 3/16	736
2224	3	5201	4	16	4 1/4	3 3/16	854
223	3	5201	8	24	4 1/4	3 3/16	1114
2234	5	5201	4	24	4 1/4	3 3/16	1350
224	4	5201	8	32	4 1/4	3 3/16	1512
2244	7	5201	4	32	4 1/4	3 3/16	1854
222E	2	5201	8	18 1/4	4 1/4	3 3/16	750
222E4	3	5201	4	18 1/4	4 1/4	3 3/16	870
223E	3	5201	8	26 1/4	4 1/4	3 3/16	1130
223E4	5	5201	4	26 1/4	4 1/4	3 3/16	1365
224E	4	5201	8	35 1/4	4 1/4	3 3/16	1530
224E4	7	5201	4	35 1/4	4 1/4	3 3/16	1870

Racks with catalog numbers ending in "E" have backs extended for mounting bolts beyond end insulators

PORCELAIN INSULATORS

TELEPHONE



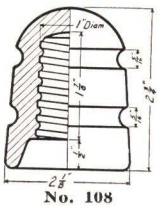
No. 107

Cat. No.	Hght. In.	Diam. In.	Groove In.	Hole In.	Price Per 1000
107	2¾	2⅛	5/16	1	$80.00

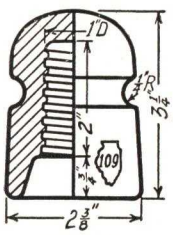
Quantity per barrel 700. Weight per barrel 355 lbs.

Cat. No.	Hght. In.	Diam. In.	Groove In.	Hole In.	Price Per 1000
108	2¾	2⅛	5/16	1	$80.00

Quantity per barrel 700. Weight per barrel 345 lbs.



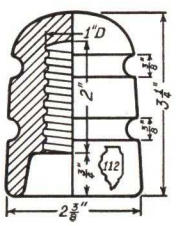
No. 108



No. 109

Cat. No.	Hght. In.	Diam. In.	Groove In.	Hole In.	Price Per 1000
109	3¼	2⅜	½	1	$90.00

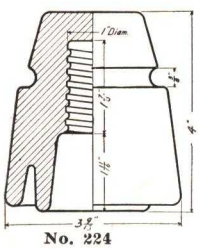
Quantity per barrel 500. Weight per barrel 400 lbs.



No. 112

Cat. No.	Hght. In.	Diam. In.	Groove In.	Hole In.	Price Per 1000
112	3¼	2⅜	⅜	1	$90.00

Quantity per barrel 500. Weight per barrel 380 lbs.



No. 224

Cat. No.	Hght. In.	Diam. In.	Groove In.	Hole In.	Price Per 1000
224	4	3 9/16	⅜	1	$200.00

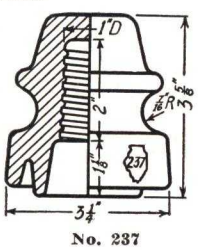
Dry Flashover 50,000 volts, Wet Flashover 26,000 volts, Line Voltage 5,000.

Quantity per carton, 25. Weight per carton, 50 lbs.

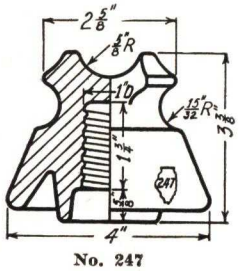
LIGHT AND POWER

Cat. No.	Qty. Carton	Wt. Lbs. Carton	Price Per 1000
237	50	60	$140.00

Leakage distance 4 inches. Dry Flashover 35,000 volts, Wet Flashover 20,000 volts. Nominal rating 6,600 volts.



No. 237



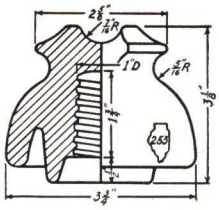
No. 247

Cat. No.	Qty. Cart.	Wt. Lbs. Cart.	Price Per 1000
247	50	75	$200.00

Leakage distance 5 inches. Dry Flashover 50,000 volts, Wet Flashover 25,000. Nominal rating 8,000 volts.

PORCELAIN INSULATORS

LIGHT AND POWER



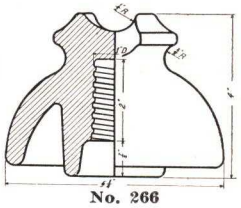
No. 253

Cat. No.	Qty. Carton	Wt. Lbs. Carton	Price Per 1000
253	50	75	$200.00

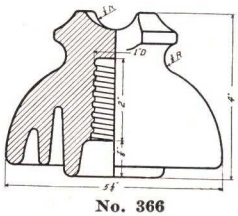
Leakage distance 4¾ inches. Dry Flashover 50,000 volts, Wet Flashover 30,000 volts. Nominal rating 8,000 volts.

Cat. No.	Qty. Carton	Wt. Lbs. Carton	Price Per 1000
266	18	55	$370.00

Leakage distance 8 inches. Dry Flashover 70,000 volts, Wet Flashover 40,000 volts. Nominal rating 17,500 volts.



No. 266



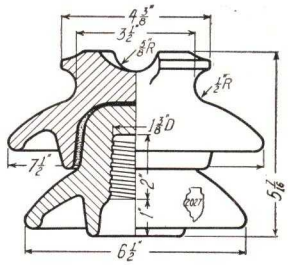
No. 366

Cat. No.	Qty. Carton	Wt. Lbs. Carton	Price Per 1000
366	18	75	$470.00

Leakage distance 9¼ inches. Dry Flashover 70,000 volts, Wet Flashover 40,000 volts. Nominal rating 17,500 volts.

Cat. No.	Quan. Per Box	Lbs. Per Box	Price Per 1000
2027	6	57	$1300.00

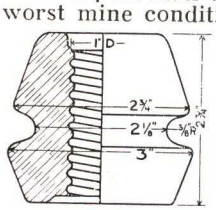
Leakage distance 13 inches. Dry Flashover 95,000 volts, Wet Flashover 65,000 volts. Nominal rating 27,000 volts.



No. 2027

PORCELAIN MINE INSULATORS

Nos. 1, 5 and 2 are of the screw thread type, white glazed standard. No. 40 is made of high tension porcelain and is non-absorbent under the worst mine conditions. Brown glaze is standard.

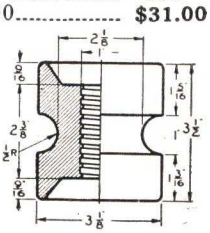


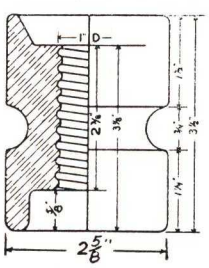
No. 2 MINE

Cat. No.	2502
Net. Weight, Each, Ozs.	15
Approx. Wt., Packed, Per 100	95
Number Per Barrel	440
Price Per 100	$31.00

No. 5 MINE

Cat. No.	2505
Net Weight, Each, Ozs.	24
Approx. Wt., Packed, Per 100	150
Number Per Barrel	250
Price Per 100	$56.70





Nos. 1 AND 40 MINE

Cat. No.	2501	2540
Net Wt., Each Ounces	20	20
Approx. Wt., Packed, 100	115	115
No. Per Bbl.	300	300
Price, 100	$34.00	$47.00

PORCELAIN INSULATORS



Cat. No.	Hght. In.	Diam. In.	Hole In.	Price Per 1000
100	2⅛	2¼	9/16	**$21.00**

Groove, 1 inch.
Number per carton, 100.
Pounds per 100, 50.

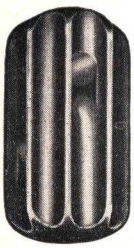


Cat. No.	Hght. In.	Diam. In.	Hole In.	Price Per 1000
101	3	3	¾	**$360.00**

Groove, 1½ inch.
Number per carton, 50.
Pounds per 100, 110.

No. 101

JOSLYN PORCELAIN STRAIN INSULATORS



STRAIN INSULATORS

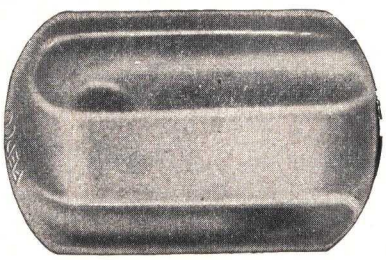
Wet Process

Cat. No.	Hght. In.	Diam. In.	Hole In.	Price Per 1000
534	3½	2½	⅝	**$595.00**
536	5⅜	3¼	¾	**1200.00**
538	6⅞	3½	1	**1460.00**

Cat. No.	Volts Dry Flashover	Volts Wet Flashover	Line Voltage	No. Per Barrel	Per Bbl. Pounds
534	22,000	10,000	1,500	350	445
536	30,000	14,000	2,000	120	390
538	40,000	16,000	4,500	85	400

PP STRAIN INSULATORS

STRAIN INSULATORS—NO. 500 SERIES



All Strain Insulators of the 500 Series furnished in Wet Process porcelain except No. 500 which is Dry Process.

Cat. No.	Length Inches	Max. Wire Size	Diam. In.	Net Wt. Each	Std. Pkg.	Shpg. Wt. Lbs. Per 100
500	2⅛	⅜	1 1/16	4 oz.	200	25
502	3½	⅜	2½	19 oz.	50	128
504	4¼	½	2⅞	24 oz.	36	178
506	5⅜	⅝	3⅜	3 lb.	25	368

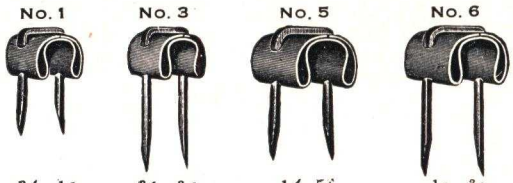
Electrical and Mechanical Characteristics (Wet Process Only)

Cat. No.	Flashover Voltage Dry	Flashover Voltage Wet	Mechanical Strength Lbs.	Nominal Line Voltage Rating
502	25000	12000	10000	2200
504	30000	15000	12000	4400
506	35000	18000	20000	6600

Prices on application.

BLAKE INSULATED STAPLES

Mfgd. by S. H. COUCH COMPANY, Inc.



Illustrations Actual Size—No. 7 (not shown) ¼x⅞

No. R-100 Regular Staples Packed 100 to a Box

Quantity	Packed Box	Packed Carton	Price per 1000 No. 1, 3 & 5	Price per 1000 No. 6 & 7
1000 to 9000	100	1000	**$1.60**	**$1.80**
10000 to 24000	100	1000	**1.30**	**1.50**
25000 & Over	100	1000	**1.20**	**1.40**

No. D-50 Regular Staples Packed 50 to a Display Box

			No. 1, 3 & 5	
1000 to 9000	50	1000	**1.80**	.....
10000 to 24000	50	1000	**1.50**	.....
25000 & Over	50	1000	**1.40**	.....

No. C-40 Colored Staples Packed 40 to a Display Box

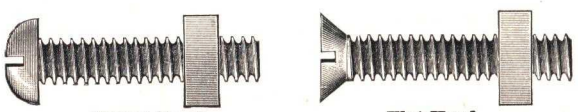
			No. 5	
1000 to 9000	40	1000	**2.20**	.....
10000 to 24000	40	1000	**1.90**	.....
25000 & Over	40	1000	**1.70**	.....

Colored staples are furnished in Ivory, White or Brown.

Cartons of 1000 staples (25 boxes) contain staples all the same color.

STEEL STOVE BOLTS

SLOTTED HEAD



Round Head Flat Head

Lgth. In.	Price per 100 Diameter Inches 1/8	5/32	3/16	1/4	5/16	3/8	1/2
3/8	**$0.86**	**$0.95**	**$1.00**	.....	.....	.....	.....
½	**.88**	**.97**	**1.04**	**$1.55**	.....	.....	.....
⅝	**.90**	**.99**	**1.08**	**1.60**	.....	.....	.....
¾	**.92**	**1.02**	**1.12**	**1.65**	**$2.60**	**$3.80**	.....
⅞	**.95**	**1.06**	**1.16**	**1.70**	**2.70**	**3.90**	.....
1	**1.00**	**1.10**	**1.20**	**1.75**	**2.80**	**4.00**	**$9.30**
1⅛	**1.05**	**1.15**	**1.25**	**1.80**	**2.90**	.....	.....
1¼	**1.10**	**1.20**	**1.30**	**1.90**	**3.00**	**4.30**	**9.70**
1½	**1.20**	**1.30**	**1.40**	**2.05**	**3.20**	**4.60**	**10.30**
1¾	**1.30**	**1.45**	**1.55**	**2.20**	**3.50**	**4.90**	.....
2	**1.45**	**1.60**	**1.75**	**2.40**	**3.80**	**5.20**	**11.60**
2¼	.....	.....	**1.90**	**2.65**	**4.10**	**5.60**	.....
2½	.....	.....	**2.10**	**2.90**	**4.40**	**6.00**	**13.20**
2¾	.....	.....	**2.25**	**3.15**	**4.70**	.....	.....
3	.....	.....	**2.45**	**3.40**	**5.00**	**6.80**	**14.90**
3½	.....	.....	**2.80**	**3.90**	**5.50**	**7.60**	.....
4	.....	.....	**3.15**	**4.40**	**6.20**	**8.40**	.....
4½	.....	.....	**3.50**	**4.85**	**6.90**	**9.30**	.....
5	.....	.....	**3.85**	**5.35**	**7.60**	**10.20**	.....
6	.....	.....	**4.60**	**6.30**	**9.00**	**12.00**	.....

Prices for brass stove bolts quoted on application.

WOOD SCREWS

IRON WOOD SCREWS



Flat Head, Bright



Round Head, Blued or Nickel Plated



Oval Head, Nickel Plated

Put up in standard packages of one gross of each size except larger sizes, mostly 3½ inch and over, which are packed ½ and ¼ gross in paper box, according to size.

PRICE PER GROSS

	Length, Inches																		
No.	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2¼	2½	2¾	3	3½	4	4½	5
0	$0.30	$0.32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.30	.32	$0.34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	.30	.32	.34	$0.36	$0.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	.32	.34	.36	.38	.40	$0.44	$0.46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	.32	.34	.36	.38	.40	.46	.48	$0.52	$0.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5	.....	.34	.36	.40	.42	.48	.50	.54	.62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6	.....	.38	.40	.44	.46	.52	.54	.58	.66	$0.72	$0.78	$0.82	$0.90	.....	.....	.....	.....	.....	.....
7	.....	.42	.44	.48	.50	.56	.58	.62	.70	.78	.84	.88	.96	.....	.....	.....	.....	.....	.....
8	.....	.46	.48	.52	.54	.60	.62	.66	.75	.84	.90	.95	1.05	$1.10	$1.20	.....	.....	.....	.....
9	.....	.....	.52	.56	.58	.64	.66	.70	.80	.90	1.00	1.05	1.15	1.20	1.30	.....	.....	.....	.....
10	.....	.....	.56	.60	.62	.68	.70	.76	.86	.96	1.10	1.15	1.25	1.32	1.42	$1.90	.....	.....	.....
11	.....	.....	.....	.64	.66	.72	.75	.84	.95	1.05	1.20	1.25	1.35	1.45	1.55	2.10	.....	.....	.....
12	.....	.....	.....	.68	.70	.76	.80	.92	1.05	1.15	1.30	1.35	1.50	1.65	1.75	2.30	$2.50	.....	.....
14	.....	.....	.....	.....	.90	1.05	1.10	1.25	1.35	1.50	1.60	1.75	1.85	2.05	2.25	2.80	3.00	$3.30	$3.65
16	.....	.....	.....	.....	.....	.....	1.40	1.55	1.70	1.90	2.00	2.20	2.40	2.60	2.80	3.35	3.55	3.85	4.20
18	.....	.....	.....	.....	.....	.....	.....	1.85	2.05	2.30	2.40	2.65	3.00	3.20	3.40	3.95	4.20	4.50	5.00
20	.....	.....	.....	.....	.....	.....	.....	.....	2.40	2.70	2.80	3.10	3.60	3.80	4.00	4.55	4.95	5.25	6.00
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.95	5.70	6.60	7.10	7.60

BRASS WOOD SCREWS



Flat Head



Round Head



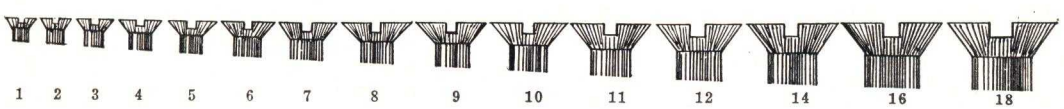
Oval Head

PRICE, PER GROSS

	Length, Inches														
No.	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2	2¼	2½	3	3½
0	$0.64	$0.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.66	.70	$0.78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	.70	.76	.84	$0.90	$1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	.76	.82	.90	1.00	1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	.86	.90	.98	1.10	1.20	$1.40	$1.50	.....	.....	.....	.....	.....	.....	.....	.....
5	.....	.98	1.10	1.25	1.35	1.55	1.65	.....	.....	.....	.....	.....	.....	.....	.....
6	.....	1.10	1.25	1.40	1.50	1.75	1.85	$2.20	$2.45	.....	.....	.....	.....	.....	.....
7	.....	.....	1.45	1.60	1.75	2.00	2.15	2.50	2.80	.....	.....	.....	.....	.....	.....
8	.....	.....	1.65	1.80	2.00	2.25	2.40	2.80	3.20	$3.65	$4.00	.....	.....	.....	.....
9	.....	.....	.....	2.05	2.25	2.50	2.70	3.20	3.60	4.10	4.50	.....	.....	.....	.....
10	.....	.....	.....	2.30	2.50	2.75	3.00	3.60	4.00	4.60	5.10	$5.60	$6.20	.....	.....
11	.....	.....	.....	.....	2.75	3.10	3.35	4.00	4.55	5.20	5.75	6.35	7.00	.....	.....
12	.....	.....	.....	.....	3.10	3.45	3.80	4.45	5.10	5.85	6.55	7.15	7.80	$9.15	$11.20
14	.....	.....	.....	.....	.....	.....	4.90	5.75	6.50	7.40	8.15	9.00	9.85	11.20	13.25
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.30	11.35	12.50	14.40	16.65
18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.45	13.60	15.10	17.65	20.20

Put up in standard packages of 1 gross of each size.

ACTUAL SIZE OF WOOD SCREWS



1 2 3 4 5 6 7 8 9 10 11 12 14 16 18

ACTUAL SIZE IN DECIMALS OF AN INCH

.071 .084 .097 .110 .123 .136 .150 .163 .176 .189 .202 .215 .242 .268 .294

NEAREST COMMON FRACTION EQUIVALENT

$\frac{5}{64}$ $\frac{3}{32}$ $\frac{3}{32}$ $\frac{7}{64}$ $\frac{1}{8}$ $\frac{9}{64}$ $\frac{5}{32}$ $\frac{5}{32}$ $\frac{11}{64}$ $\frac{3}{16}$ $\frac{13}{64}$ $\frac{7}{32}$ $\frac{1}{4}$ $\frac{17}{64}$ $\frac{19}{64}$

STEEL MACHINE SCREWS

SLOTTED HEAD



Flat Head



Oval Head



Round Head



Fillister Head

Price per Gross

Lgth. In.	Diameter of Screw 2	3	4	6	8	10
	Coarse Threads per Inch 56	48	40	32	32	24
	Fine Threads per Inch					32
1/8	$0.41	$0.42	$0.43	$0.47	.....	.....
3/16	.42	.43	.44	.48	$0.60	$0.67
1/4	.43	.44	.45	.49	.62	.69
5/16	.44	.45	.46	.50	.64	.71
3/8	.45	.46	.47	.51	.66	.73
7/16	.46	.47	.48	.52	.68	.75
1/2	.47	.48	.49	.54	.70	.77
5/8	.49	.51	.52	.57	.74	.82
3/4	.51	.53	.55	.60	.77	.87
7/8	....	....	.57	.65	.81	.92
1	....	....	.61	.70	.88	.98
1 1/8	....	....	....	.80	.96	1.06
1 1/4	....	....	.80	.90	1.04	1.15
1 1/2	....	....	.90	1.00	1.16	1.30
1 3/4	....	....	....	1.10	1.28	1.45
2	....	....	....	1.20	1.40	1.60
2 1/4	....	....	....	....	1.55	1.80
2 1/2	....	....	....	....	1.70	2.00
2 3/4	....	....	....	....	1.85	2.20
3	....	....	....	....	2.00	2.40

Lgth. In.	Diameter of Screw 12	1/4	5/16	3/8	*1/2
	Coarse Threads per Inch 24	20	18	16	13
1/4	$0.83	.....	.....	.....	.....
5/16	.....	$1.10	.....	.....	.....
3/8	.89	1.13	$1.70	.....	.....
7/16	.....	1.16	.....	.....	.....
1/2	.95	1.20	1.80	$2.75	.....
5/8	1.02	1.28	1.95	2.95	.....
3/4	1.08	1.36	2.05	3.10	.....
7/8	1.14	1.45	2.20	3.30	.....
1	1.20	1.55	2.35	3.50	$7.20
1 1/8	.....	1.65	.....	.....	.....
1 1/4	1.40	1.75	2.65	3.90	7.90
1 1/2	1.55	1.95	3.00	4.30	8.60
1 3/4	.....	2.15	3.35	4.70	9.40
2	1.85	2.35	3.70	5.10	10.20
2 1/4	.....	2.55	.....	.....	.....
2 1/2	.....	2.80	4.40	6.20	12.10
2 3/4	.....	3.10	.....	.....	.....
3	.....	3.40	5.20	7.50	.....

Lengths, diameters, and threads not listed are considered special, but are furnished to the extent that they may be in stock, or when required in sufficient quantities of a size to warrant being made to order.

*Made in flat heads only.

HEXAGON MACHINE SCREW NUTS

STEEL AND BRASS

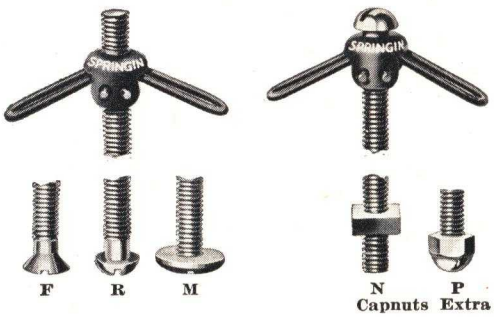


Screw Diam.	Threads Per Inch Coarse	Fine	Steel Wt. per Gross	Steel Price Gross	Brass Wt. per Gross	Brass Price Gross
2	56	....	.06	$0.75	.07	$0.90
3	48	....	.06	.75	.07	.90
4	40	....	.17	.66	.18	.95
5	40	....	.32	.70	.35	1.25
6	32	....	.31	.70	.34	1.25
8	32	....	.41	.76	.44	1.50
10	24	32	.48	.82	.52	1.60
12	24	....	.81	1.05	.87	2.80
1/4	20	....	.90	1.20	.97	3.20
5/16	18	....	1.75	1.90	1.89	6.30
3/8	16	....	2.35	2.60	2.53	8.40
1/2	13	....	6.00	5.90	10.10	.....

STAR SPRINGIN TOGGLE BOLTS

CAT. NO. 5500 SPRING-WING TOGGLE BOLTS

Cadmium Plated



F R M N P

Capnuts Extra

F Type—With flat head screw. R Type—With round head screw. M Type—Mushroom head, furnished in 1/8-inch diameter only. Nut Type—Reverse R or F screw and add nut. P Type—Plumber's toggle. Reverse R or F screw and add nut. Capnuts are extra.

Made M or F Head Screw Only

*Cat. No.	Diam. & Lgth. Screw In.	Size Drill Required In.	No. Pcs. in Box	Std. Cart.	Wt. Lbs. Per 100	Price Per 100
5506	1/8x2	3/8	50	500	1 1/2	$8.00
5507	1/8x3	3/8	50	500	1 3/4	9.00
5508	1/8x4	3/8	50	500	2	10.00

Made R, F, N or P Screw Styles

5509	3/16x2	1/2	50	250	2 1/2	8.50
5510	3/16x3	1/2	50	250	3	9.50
5511	3/16x4	1/2	50	250	3 1/2	10.00
5512	3/16x5	1/2	50	250	4 1/2	12.00
5513	3/16x6	1/2	50	250	4 1/2	12.50
5515	1/4x3	5/8	50	250	5 1/2	10.50
5516	1/4x4	5/8	50	250	6 1/2	11.00
5517	1/4x5	5/8	50	250	7 1/2	14.00
5518	1/4x6	5/8	50	250	9	15.50
5520	5/16x3	7/8	25	125	8	16.00
5521	5/16x4	7/8	25	125	10	17.00
5522	5/16x5	7/8	25	125	11 1/4	21.50
5523	5/16x6	7/8	25	125	13	23.00
5525	3/8x3	7/8	25	125	13	21.00
5526	3/8x4	7/8	25	125	15	23.00
5527	3/8x5	7/8	25	125	18 1/2	28.50
5528	3/8x6	7/8	25	125	20	30.00

DIAMOND EXPANSION SHIELDS

DIAMOND "P" LAG SCREW EXPANSION SHIELDS



Prices do not include the lag screws.

Series 1000 Short

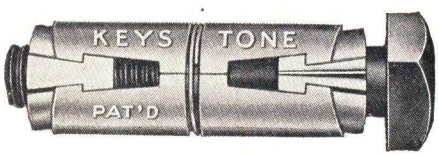
Cat. No.	Dia. of Lag	Lgth. Inches	Drill Size	No. Per Box	Shpg. Wt. Lbs. Per 100	Price Per 100
1003	3/16	1	3/8	100	2	$15.00
1004	1/4	1	7/16	100	3	15.00
1005	5/16	1	1/2	100	4	18.00
1006	3/8	2	5/8	50	7	25.00
1008	1/2	2	3/4	50	10	38.00
1010	5/8	2	7/8	50	13	45.00
1012	3/4	2	1 1/8	25	21	65.00

Series 1100 Long

1104	1/4	1 1/2	1/2	100	4	15.00
1105	5/16	1 3/4	9/16	100	5	18.00
1106	3/8	2 3/4	5/8	50	11	25.00
1108	1/2	3 1/2	3/4	50	17	38.00
1110	5/8	3 1/2	7/8	25	21	45.00
1112	3/4	3 1/2	1 1/8	25	34	65.00
1114	7/8	5	1 3/8	25	75	95.00
1116	1	5	1 1/2	25	90	110.00
1120	1 1/4	8	1 7/8	20	270	250.00

INTERLOCKING KEYSTONE EXPANSION SHIELDS

For Use With Machine Bolts



Double Type—Shields Only

Cat. No.	Bolt Dia.	Length Inches	Drill Size	No. Per Box	Shpg. Wt. Lbs. Per 100	Price Per 100
1404	1/4	1 1/2	1/2	100	5	$15.00
1405	5/16	1 3/4	9/16	100	6	18.00
1406	3/8	2	11/16	50	10	25.00
1408	1/2	2 1/2	7/8	50	18	38.00
1410	5/8	2 7/8	1	25	27	45.00
1412	3/4	3 1/4	1 1/8	25	35	65.00
1414	7/8	4	1 1/2	25	85	95.00
1416	1	4 1/4	1 5/8	25	100	110.00
1420	1 1/4	6	2 1/8	20	240	250.00



Single Type—Shields Only

1504	1/4	1 5/16	1/2	100	4	15.00
1505	5/16	1 1/2	9/16	100	6	18.00
1506	3/8	1 5/8	11/16	50	9	25.00
1508	1/2	1 7/8	7/8	50	16	38.00
1510	5/8	2	1	25	19	45.00
1512	3/4	2 3/4	1 3/16	25	38	65.00

DIAMOND EXPANSION SHIELDS

SUPER-GRIP—STYLE A EXPANSION SHIELDS

For Machine Bolts



This expansion is known for its high holding power and is made of two metals, lead and brass, which are rust resistant.

May be used with or without setting tool.

Without Bolts or Screws

Diam. Bolt or Screw	Length of Shield	Diam. of Hole and Drill	Wt. Lbs. Per 100	Price Per 100
3/16 } 8-32 } 10-24	1/2	5/16	1.2	$10.00
1/4 } 12-24	1 1/8	7/16	3.8	15.00
5/16	1 1/4	1/2	6	18.00
3/8	1 3/4	9/16	9	25.00
1/2	2 1/4	3/4	21	38.00
5/8	2 5/8	7/8	31	45.00
3/4	3	1	42	65.00

SUPER-GRIP — STYLE B EXPANSION BOLTS

Patented



Bolt has tapered cone-shaped end, which expands the lead-alloy sleeve. Can be used with or without setting tool. Bolts and nuts hot galvanized. Sold complete only.

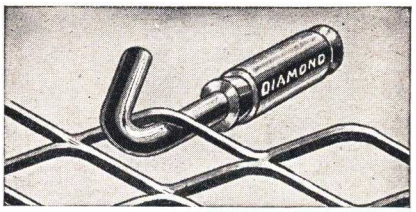
Prices per 100—Complete with galvanized bolts.

Bolt Dia.	Outside Diam.	Length Inches 1 1/2 Inch	2 Inch	2 1/2 Inch	3 Inch
1/4	7/16	$15.50	$15.65	$15.80	$15.95
5/16	1/2	23.00	23.50	24.00	24.50
3/8	9/16	----------	----------	29.25	30.00
1/2	3/4	----------	----------	----------	44.40
5/8	7/8	----------	----------	----------	76.40

Bolt Dia.	Outside Diam.	Length, Inches 3 1/2 Inch	4 Inch	5 Inch	6 Inch
3/8	9/16	$30.75	$31.50	$33.00	$34.50
1/2	3/4	45.65	47.00	48.20	49.40
5/8	7/8	78.25	80.00	83.80	87.60
3/4	1	111.90	114.60	120.00	125.40

One calking tool furnished in each box of Style B bolts.

DIAMOND HOOK EXPANSION BOLTS



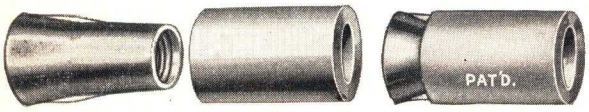
Diamond Hook Expansion Bolts supply a most positive attachment for suspending metal lath on walls, ceilings and floors.

Diam. Bolt	Size Drill to Use	Depth of Hole to Drill	Length of Hook Under Eye	Price Per 100
1/4	1/2	1 1/8	2	$8.25

One calking tool furnished free with each 100 bolts. Made in other sizes to suit particular requirements. Prices on application.

ACKERMAN-JOHNSON EXPANSIVE SCREW ANCHORS

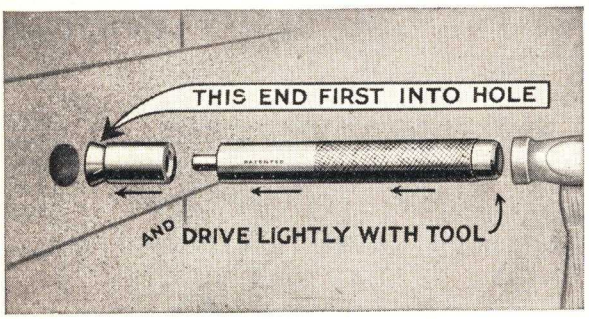
For attaching fixtures or wiring to any hard surface as brick, concrete, stone or marble, slate, etc.



Anchor Nut **Expansive Sleeve** **Anchor Assembled**

Consists of a deep nut of conical design with lead-alloy expansible sleeve; factory assembled to be handled as one piece. Threaded for machine screws or bolts.

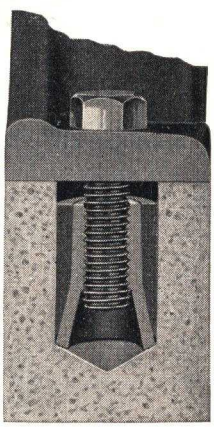
Operation



The sleeve expands over tapered formations of the nut against all sides of hole, giving perfect holding contact thruout its length and circumference. These anchors are installed completely before the work is attached. When set in good masonry their holding power will exceed the tensile strength of screws or bolts to be used with them. For any diameter of screw or bolt, specify the corresponding size and anchor from the first column of list.



Anchor Installed



Cross section of anchor installed with work attached.

Anchors — Without Screws

Size No. and Threads Per Inch	Minimum Dimens. of Holes Required Diam.	Depth	Standard Quantity Per Box	Shpg. Wt. Lbs. Per 100	List Price Per 100
6x32	¼"	⅜"	50-100	⅞	**$6.00**
8x32	5/16"	½"	50-100	1⅓	**6.50**
10x24	⅜"	⅝"	50-100	2⅜	**7.50**
12x24	7/16"	¾"	50-100	3¾	**9.50**
¼"x20	½"	⅞"	50-100	5¼	**11.00**
5/16"x18	⅝"	1 "	50-100	9	**15.00**
⅜"x16	¾"	1¼"	50-100	14¼	**20.00**
7/16"x14	⅞"	1½"	50-100	21¾	**26.00**
½"x13	⅞"	1½"	50-100	21½	**26.00**
⅝"x11	1⅛"	2 "	50-100	46	**50.00**
¾"x10	1¼"	2½"	50-100	64	**75.00**
⅝"x9	1½"	2¾"	25-50	110	**120.00**
1"x8	1¾"	3½"	25-50	192	**180.00**

PILOTED SETTING PUNCH



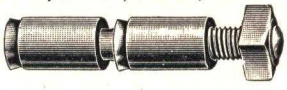
Included without additional cost in each box of anchors.

ACKERMAN-JOHNSON STUD TYPE EXPANSION BOLTS

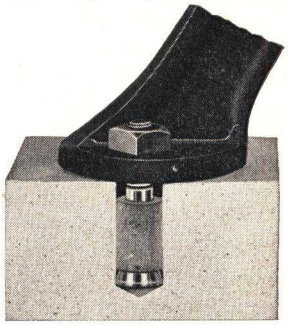
For fastening to concrete, brick, stone, etc.



With Single Expansion Unit



With Two Expansion Units



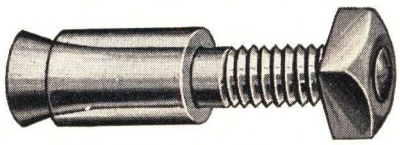
Bolt installed; Expansion completed, and fixture attached.

The stud type expansion bolt (single) consists of bolt with special, tapered head, a lead-alloy expansible unit and nut. When installed with tool shown below the threaded end of bolt protudes and fixture may be secured with nut.

When set in good masonry the holding strength of single unit is about equal to the tensile strength of bolt.

However additional units may be used on the larger sizes for extra heavy duty or where the greatest possible safety is desired as for anchorage of heavy power equipment, street lamp or signal standards, etc.

STUD TYPE EXPANSION BOLTS COMPLETE



With Single Unit and Square Nut

List Per Hundred

Diam. of Bolt Thread	¼"	5/16"	⅜"	½"		⅝"		¾"		1"
Length	Galv.	Galv.	Galv.	Not Galv.	Galv.	Not Galv.	Galv.	Not Galv.	Galv.	Not Galv.
1¼"	9.20	.....	.....	.....	.....	.....	.....	.....	.....	.....
1½"	9.30	11.00	.....	.....	.....	.....	.....	.....	.....	.....
1¾"	9.40	.....	15.20	.....	.....	.....	.....	.....	.....	.....
2"	9.50	11.40	15.50	.....	.....	.....	.....	.....	.....	.....
2¼"	.....	.....	15.80	.....	.....	.....	.....	.....	.....	.....
2½"	9.70	11.80	16.10	29.00	33.00	.....	.....	.....	.....	.....
3"	9.90	12.20	16.70	30.50	35.00	.....	.....	.....	.....	.....
3½"	10.10	12.60	17.30	32.00	37.00	53.00	60.00	.....	.....	.....
4"	10.40	13.00	18.00	33.50	39.00	55.00	63.00	71.00	84.00	.....
4½"	.....	.....	18.70	.....	.....	.....	.....	.....	.....	.....
5"	.....	14.00	19.40	37.00	43.00	60.00	69.00	79.00	94.00	.....
6"	.....	.....	20.10	40.50	47.00	65.00	75.00	87.00	104.00	212.00
7"	.....	.....	.....	44.00	51.00	.....	.....	.....	.....	221.00
7½"	.....	.....	.....	.....	.....	72.00	84.00	99.00	119.00	.....
8"	.....	.....	21.00	47.50	55.00	.....	.....	.....	.....	230.00
9"	.....	.....	.....	.....	.....	79.00	93.00	111.00	134.00	.....
10"	.....	.....	.....	54.00	63.00	.....	.....	119.00	144.00	248.00
10½"	.....	.....	.....	.....	.....	86.00	102.00	123.00	149.00	.....
12"	.....	.....	.....	61.00	71.00	93.00	111.00	135.00	164.00	266.00
15"	.....	.....	.....	72.00	85.00	108.00	130.00	.....	.....	293.00
20"	.....	.....	.....	87.00	105.00	.....	.....	.....	.....	.....
Extra Units	.....	.....	12.00	22.00	.....	38.00	.....	60.00	.....	120.00

Minimum Holes Required

Diam. of hole	⅜"	½"	9/16"	¾"	1"	1⅛"	1⅝"
Depth 1 unit	¾"	1"	1⅛"	1½"	1¾"	2¼"	3"
Depth 2 units	.....	.....	2¼"	3"	3½"	4¼"	5¾"

SETTING TOOL



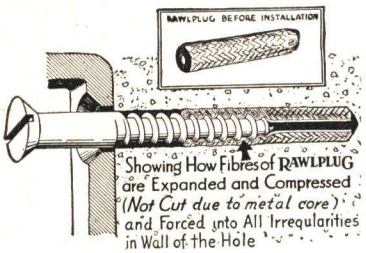
Included with no added cost with each 50 or 100 bolts.

RAWLPLUGS

REG. U.S. PAT. OFF.

FIBRE ANCHORS FOR USE IN ANY MATERIAL WITH WOOD OR LAG SCREWS

Holds Screws Fast



The Rawlplug has a high compression value. The hole, screw, and Rawlplug are practically the same size, therefore the fibres must be compressed when screw enters Rawlplug. Due to the metal core, the threads of the screw do not cut the fibres of the plug, but instead thread the metal core, making it possible to unscrew and replace the screw.



The fibre construction of the Rawlplug being flexible permits the plug to conform to any irregularities of the hole under compressive action of screw. Thus the entire length and circumference of plug grips the full surface of hole. Because of this "elastic compression" shock and vibration have no effect on the gripping power of Rawlplugs.



They work equally well in any material: wood, glass, masonry, plasters, slate, rubber, marble, tile, brick, concrete, or metal. Unaffected by moistures, temperature, insects, fungus, vibration, or shock.

RAWLPLUGS CONTRACTORS' OUTFIT



The ideal outfit for superintendents of office buildings, institutions, hotels, apartments, maintenance engineers in industrial plants and all contractors. Complete with assortments of popular size Rawlplugs, Rawl-Grips, Rawl-Twist drills, Rawldrills, Toolholders, Tool Ejector and samples of other Rawl Products all conveniently placed in a heavy gauge steel mechanics tool box.

List price complete.....**$40.00**

(Total List value of contents $49.50.)

RAWLPLUGS

REG. U.S. PAT. OFF.

FOR USE WITH STANDARD WOOD SCREWS

For Wood Screw		Use Rawlplug		Price Per 100	Lbs. Approx. Wgt. per Std.Pkg. (12 Boxes)	Use M/T or R/T Rawldrill		Use Tool-Holder No.	Use Twist Drill Size
Sizes	Lgths.	Size	†Lgh.			No.	Dia.		
5-6	1″ 1¼″ 1½″	6	⅝″ ¾″ 1″	$2.70 2.80 3.00	1 1 1½	6 $11.50 Per Doz.	5/32″	14 $24.00 Per Doz.	5/32″
7-8	1″ 1¼″ 1½″ 2″ 2½″	8	⅝″ ¾″ 1″ 1½″	3.10 3.20 3.40 3.80	1½ 1½ 2 2½	8 $11.50 Per Doz.	11/64″	14 $24.00 Per Doz.	No. 15
9-10	1¼″ 1½″ 1¾″ 2″ 2½″	10	¾″ 1″ 1¼″ 1½″	3.40 3.80 4.20 4.60	1¾ 2½ 2¾ 3¼	10 $11.50 Per Doz.	3/16″	14 $24.00 Per Doz.	No. 10
11-12	1¼″ 1½″ 1¾″ 2″ 2½″	12	¾″ 1″ 1¼″ 1½″	4.20 4.60 5.00 5.40	2½ 3½ 4¾ 5½	12 $11.50 Per Doz.	¼″	14 $24.00 Per Doz.	¼″
* 14 or ¼″ lag screw	1½″ 1¾″ 2″ 2½″ 3″ 3½″	14	1″ 1¼″ 1½″ 2″	5.40 6.00 6.60 7.80	4½ 5½ 6 8	14 $12.50 Per Doz.	5/32″	14 $24.00 Per Doz.	5/32″
* 16 or ¼″ lag screw	1½″ 2″ 2½″ 3″ 3½″	16	1″ 1½″ 2″	6.10 7.60 9.10	2½ 3¾ 5	16 $13.60 Per Doz.	5/16″	20 $30.00 Per Doz.	5/16″
* 20 or 5/16″ lag screw	1½″ 2″ 2½″ 3″ 3½″	20	1″ 1½″ 2″	9.00 11.00 13.00	3½ 5½ 7½	20 $15.70 Per Doz.	3/8″	20 $30.00 Per Doz.	3/8″

Sizes Nos. 6-14 inclusive, packed 100 to a box.
Sizes Nos. 16-20 packed 50 to a box.

FOR USE WITH LAG SCREWS

For Lag Screw		Use Rawlplug		Price Per 100	Lbs. Approx. Wgt. Per Std. Pkg. (12 Boxes)	‡Rawl-plugs Packedin Boxes of	Use Rawl-drill Size	Use Twist Drill Size
Size	Lengths	Size	Lgth.†					
3/8″	2½″ 3″	3/8	1½″	$19.00	3½	25	▲ 7/16″	7/16″
	3¼″ 4″		2″	20.00	4½			
	4½″ 5″		2½″	21.00	5½			
	5½″ 6″		3″	22.00	6½			
7/16″	2½″ 3″	7/16	1½″	26.00	4½	25	½″	½″
	3½″ 4″		2″	27.00	4¾			
	4½″ 5″		2½″	28.00	5½			
	5½″ 6″		3″	29.00	7½			
½″	3½″ 4″	½	2″	32.00	7½	25	5/8″	5/8″
	4½″ 5″		2½″	33.00	8½			
	5½″ 6″		3″	34.00	10			
5/8″	4½″ 5″	5/8	2½″	38.00	11	25	¾″	¾″
	5½″ 6″		3″	39.00	13			
	7″		3½″	40.00	15			

*{For ¼″ Lag Screw use No. 14 or 16 Rawlplug.
{For 5/16″ Lag Screw use No. 20 Rawlplug.
▲For 7/16″ M/T and ½″, 5/8″, ¾″ R/T Rawldrills use No. 20 Holder.
†Prices quoted upon request for any size and length not shown above.
‡Standard Package contains one dozen boxes of Rawlplugs of same size and length or one dozen M/T or R/T Rawldrills or ½ dozen Holders of the same size.

RAWLDRILLS

TYPES OF RAWLDRILLS AND ACCESSORIES

Machined Type (symbol M/T straight flute, R/T twist flute). Accurately machined to size from solid bars of high grade tool steel. Recommended when drilling holes for Rawlplugs, Rawl-Drives, and all types of expansion bolts.

Used in a tool holder when drilling by hand and in Rawl-Chuck when drilling by power hammer. Can be resharpened on any grinding wheel. Made to exact diameters.



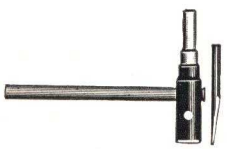


STRAIGHT FLUTE
M/T (Machined Type)
Rawldrills



TWIST FLUTE
(R/T) Rawl-Twist Drills

RAWL-CHUCK



Made of chrome nickel steel accurately machined and heat treated for a severe service in all standard electric and pneumatic chipping hammers.

In ordering be sure to specify make of hammer and size, and if pneumatic whether round or hexagon barrel, and whether for No. 14, No. 20 or No. 5/8 drill taper.

Rawl-Chucks ..... each **$8.00**
Special tool steel ejector pin for chucks (5" long) ..... net each **.90**
Extra shank pins for Pneumatic Chucks ..... net each **1.90**

RAWL-GRIP



To Fit Standard Tool Holders



Made of live hard rubber in two sizes, easily applied to No. 14 and No. 20 Rawldrill holders. Gives safe, comfortable and firm cushion grip.

No. 14 (Fits No. 14 Holder) ..... **$2.25** each
No. 20 (Fits No. 20 Holder) ..... **2.25** each

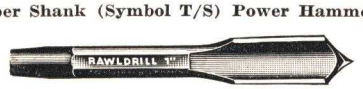


Forged Drills — Standard Type (Symbol S/T) for Hand Drilling. Made in sizes from 1/4" to 1 5/8" inclusive. Enlarged handle eliminates shock to hand—makes drilling easier.



Rawl-Spiral Carbide Drill—Made in sizes from 3/16" to 1½" inclusive.

Taper Shank (Symbol T/S) Power Hammers.



No. 5/8 Taper on Drills 7/8" to 1 5/8" diameter inclusive.





No. 20 Taper on Drills No. 16 (1/16") to 13/32" diameter inclusive.

No. 14 Taper on M/T Drills No. 6-14 inclusive.

Used in a tool holder when drilling by hand and in Rawl-Chuck when drilling by power hammer.

RAWLDRILLS

DRILL HOLDERS AND MACHINED (M/T) OR TWIST TYPE (R/T) RAWLDRILLS

Drills Size	Drills Diameter	List Price per Dozen‡	Use Drill-Holder No.	Drill Holders List Per Dozen‡
6	5/32"	**$11.50**		
8	11/64"	**11.50**		
10	3/16"	**11.50**	14	**$24.00**
12	1/4"	**11.50**		
14	9/32"	**12.50**		
16	5/16"	**13.60**		
20	3/8"	**15.70**		
7/16"	7/16"	**31.00**	20	**$30.00**
1/2"	1/2"	**34.00		
5/8"	5/8"	**45.00		
3/4"	3/4"	**60.00		

Ejectors for Drill Holders — $6.00 per dozen. F.O.B. Nearest Branch.
‡Subject to Trade Discounts. **Made in Twist Type Only.

STANDARD TYPE (S/T) FORGED DRILLS

Size Actual Diameter	List Price per Dozen‡ Length Over All As Shown	List Price per Dozen‡ Length Over All 12"
3/8" x 9"	**$20.40**	....
7/16" x 10"	**20.40**	....
1/2" x 10"	**20.40**	....
9/16" x 12"	....	**$20.40**
5/8"	....	**20.40**
11/16"	....	**24.00**
3/4"	....	**24.00**
13/16" x 12"	....	**26.40**
7/8"	....	**26.40**
1"	....	**27.00**
1 1/8"	....	**36.00**
1 1/4" x 12"	....	**45.00**
1 3/8"	....	**60.00**
1 1/2"	....	**75.00**
1 5/8"	....	**90.00**

RAWL-SPIRAL CARBIDE DRILLS

Nominal Diameter	Length Over All Inches	List Price Each‡
3/16	3	**$ 1.80**
1/4	4	**1.80**
5/16	4	**1.95**
3/8	4	**2.15**
7/16	6	**2.40**
1/2	6	**2.70**
9/16	6	**3.00**
5/8	6	**3.30**
11/16	6	**3.75**
3/4	6	**4.20**
7/8	6	**5.10**
1	6	**7.20**
1 1/8	6	**8.70**
1 1/4	10	**10.50**
1 1/2	10	**12.90**

Prices on 18" and 24" Drills on Application.
‡Subject to Trade Discounts. F.O.B. Nearest Branch.

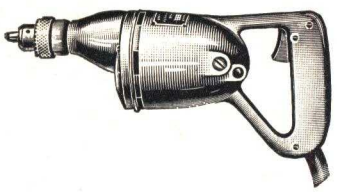
TAPER SHANK (T/S) RAWLDRILLS

Size, Actual Diameter	Length Over All — List Price Per Dozen‡ No. 20 Rawldrill Taper 6"	No. 20 Rawldrill Taper 12"	No. 5/8 Rawldrill Taper 6"	No. 5/8 Rawldrill Taper 12"
3/8"	**$15.00**	....	**$22.80**	....
7/16"	**15.60**	**$19.80**	**23.40**	**$30.00**
1/2"	**17.40**	**19.80**	**26.40**	**30.00**
9/16"	**19.80**	....	**30.00**	....
5/8"	**19.80**	**24.00**	**30.00**	**36.00**
11/16"	**22.80**	....	**30.00**	....
3/4"	**22.80**	**26.40**	**30.00**	**36.00**
13/16"	**25.20**	....	**30.00**	....
7/8"	**25.20**	**30.00**	**30.00**	**36.00**
1"	....	....	**30.00**	**36.00**
1 1/8"	....	....	**33.60**	**37.80**
1 1/4"	....	....	**44.40**	**49.20**
1 3/8"	....	....	....	**52.80**
1 1/2"	....	....	....	**60.00**
1 5/8"	....	....	....	**72.00**

Prices on 18" and 24" Drills on Application.
‡Subject to Trade Discounts F.O.B. Nearest Branch.

SIGNAL PORTABLE ELECTRIC DRILLS

¼-INCH LIGHT DUTY—TYPE OB-8

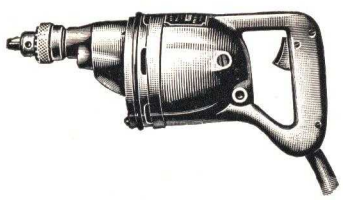


The OB-8 light duty drill is designed for intermittent service. It is a good, high quality product, properly balanced, with an air-cooled handle having a comfortable grip. Light in weight, it is especially adaptable for radio repair work, wood and metal assembly, airplane construction, boat building and kindred applications.

Motor—Universal, for D.C. or A.C., 110-120 volts, 25-60 cycles. Bearings — bronze, wool packed, with thrust ball-bearing on spindle shaft. Chuck — Jacobs with key. Gears — special alloy, heat-treated. Switch—trigger type in handle with lock for continuous operation. Cord — 7 feet of heavy duty rubber covered. Rubber plug.

Type	No Load Speed	Capacity	Length Inches	Wt. Lbs. Net	Shpg.	List Price
OB-8	2950 RPM	¼ in.	12	5½	7	**$32.00**

¼-INCH STANDARD DUTY—TYPE OB-4

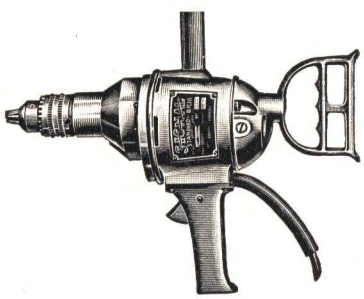


For general maintenance, construction and building work the OB-4 standard duty drill will give dependable service. It is popular with electricians, carpenters, machinists and repairmen. It has an abundance of power developed by a smooth-running universal motor. It is well balanced, has a comfortable grip and air-cooled handle.

Except for no load speed, specifications are the same as OB-8, listed above.

Type	No Load Speed	Capacity	Length Inches	Wt. Lbs. Net	Shpg.	List Price
OB-4	1700 RPM	¼ in.	12⅜	7¼	8	**$37.50**

½-INCH STANDARD DUTY—TYPE OB-5



For general production, garage, machine shop and maintenance work where a drill receives hard use. Contractors, plumbers, electricians, and others will find it can be depended upon to give efficient service.

Motor — Universal, for D.C. or A.C., 110-120 volts, 25-60 cycles. Housing—durable aluminum alloy. Bearings — armature and spindle thrust, high-grade ball. Chuck—Jacobs with key. Gears—special alloy, heat-treated. Handle—breast plate type. Pipe Handle—detachable. Switch—trigger type with lock for continuous operation. Cord—7 feet heavy duty rubber covered. Rubber plug.

Type	No Load Speed	Capacity	Length Inches	Wt. Lbs. Net	Shpg.	List Price
OB-5	400 RPM	½ in.	16½	14	16	**$60.00**

BLACK & DECKER ELECTRIC TOOLS

Universal Motors Operate on A.C. or D.C.

¼-INCH STANDARD HOLGUN



New advanced design, smooth housing, hand-fitting grip. Perfect proportions, balance, and trigger switch control. Anti-friction bearings throughout. Full-size gears, with splined gear-mounting on chuck spindle for greater strength, less noise, friction and wear. A production tool of small size and unusual adaptability.

Cat. No.	Capacity in Steel	No-Load Speed	Overall Length	Net Wt.Lbs.	Price Each
345	¼-inch	1700 RPM*	6¾	3	**$38.00**
346	¼-inch	500 RPM†	7⅛	3½	**44.00**

*Optional speeds (no extra cost) 2500, 3500, or 5000 r.p.m.
†Optional speeds (no extra cost) 750, 1000, or 1500 r.p.m.

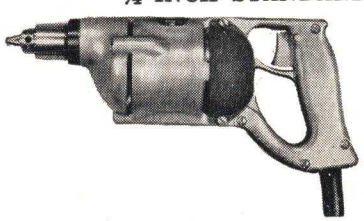
¼-INCH JUNIOR ELECTRIC DRILL



Designed for intermittent service in shops and for maintenance work. "Compo" oil-less bearings for smooth operation. Powerful motor. An ideal drill for tool kit in maintenance work, plumbing, automotive repair, electrical, carpentry and cabinet work and on the work bench.

Cat. No.	Capacity in Steel	Capacity RPM—No Load	Capacity RPM—Full Load	Overall Length	Net Wt.Lbs.	Price Each
30	¼-inch	2000	1400	10¾	3¾	**$28.00**

¼-INCH STANDARD DRILL

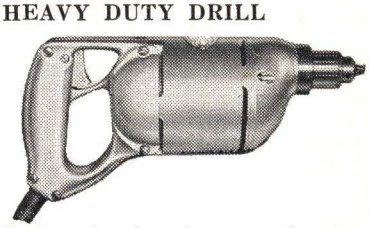


The popular ¼-inch standard drill is now supplied in die-cast aluminum alloy housings. This feature adds strength and ability to stand abuse, while retaining light weight-to-power ratio. Chuck spindle bearing is double grease sealed with inner and outer races locked. Optional no-load speeds 3,500 or 5,000 r.p.m. at no extra cost.

Cat. No.	Capacity in Steel	No-Load Speed	Overall Length	Net Wt.Lbs.	Price Each
31	¼-inch	2000 RPM	12 7/16	5¼	**$44.00**

Equipped with No. 24322 Chuck Protector, add **$1.00.**

¼-INCH HEAVY DUTY DRILL



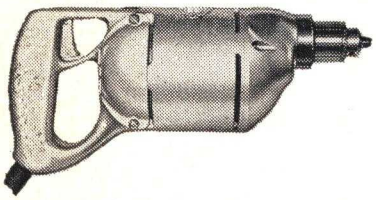
For constant service production, driving carbon brushes maintenance and repair tools and heavy duty work. Spindle gear is spline mounted and spindle bearing has inner and outer races locked in place. 3-jaw Jacobs threaded chuck is standard equipment.

Cat. No.	Capacity in Steel	No-Load Speed	Overall Length	Net Wt.Lbs.	Price Each
32	¼-inch	2000 RPM	12¼	6¾	**$50.00**
386	With Portomatic Keyless Chuck.....				**53.00**

BLACK & DECKER ELECTRIC TOOLS

Universal Motors Operate on A.C. or D.C.

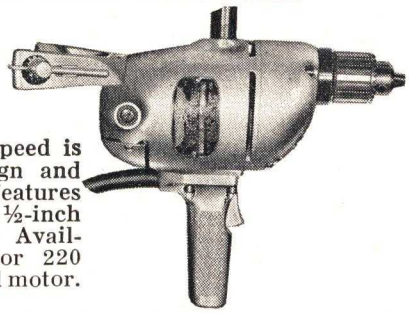
5/16-INCH HEAVY DUTY DRILL



A production tool for cabinet and body work and for lead-hole drilling on screw-driver operations. This new unit is much lighter and a full 2 inches shorter than previous model. Geared chuck and key.

Cat. No.	Capacity in Steel	No-Load Speed	Overall Length	Net Wt.Lbs.	Price Each
360	5/16-inch	1400 RPM	12⅜	7	**$52.00**
387	With Portomatic Keyless Chuck.....				**55.00**

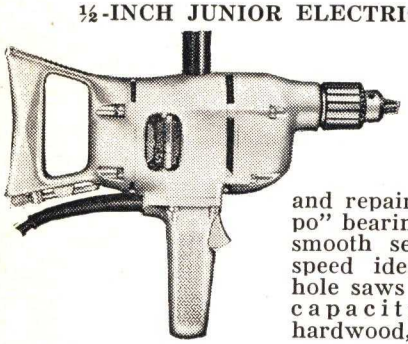
⅜-INCH HEAVY DUTY DRILL



Designed for industrial use in plants where production drilling of ⅜-inch holes at high speed is required. Design and construction features same as the ½-inch Standard Drill. Available for 110 or 220 volts. Universal motor.

Cat. No.	Capacity in Steel	No-Load Speed	Overall Length	Net Wt.Lbs.	Price Each
362	⅜-inch	900 RPM	13½	9½	**$58.00**

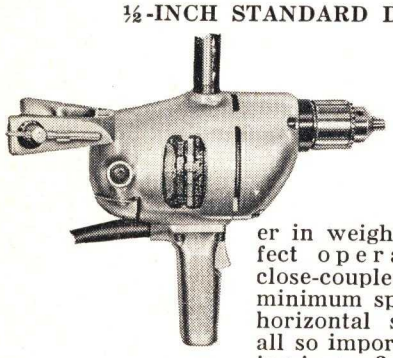
½-INCH JUNIOR ELECTRIC DRILL



Light weight tool designed for the general shop and for intermittent service in maintenance and repair work. "Compo" bearings for years of smooth service. Spindle speed ideal for driving hole saws up to 3½-inch capacity. Capacity in hardwood, 1 inch.

Cat. No.	Capacity in Steel	Speed—No Load	Speed—Full Load	Overall Length	Net Wt.Lbs.	Price Each
38	½-inch	375	240	14¼	9⅛	**$45.00**

½-INCH STANDARD DRILL



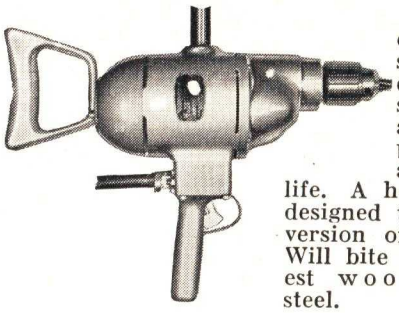
A new drill that is fully 3½ inches shorter than the previous model, and 2½ lbs. lighter in weight. It offers perfect operating balance, close-coupled construction, minimum spindle offset and horizontal spade handle — all so important when drilling in confined space.

Cat. No.	Capacity in Steel	No-Load Speed	Overall Length	Net Wt.Lbs.	Price Each
361	½-inch	400 RPM	13¾	9¾	**$58.00**

BLACK & DECKER ELECTRIC TOOLS

Universal Motors Operate on A.C. or D.C.

½-INCH HEAVY DUTY DRILL



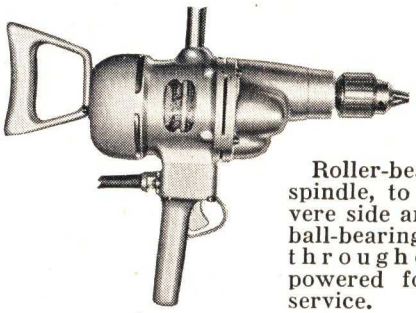
Ball bearings on armature shaft, intermediate gears and spindle shaft assures smooth performance and long life. A heavy-duty drill designed to give a new version of performance. Will bite through heaviest wood or toughest steel.

Cat. No.	Capacity in Steel	No-Load Speed	Overall Length	Net Wt.Lbs.	Price Each
40	½-inch	500 RPM	18½	17	**$77.00**

Standard Equipment — 3-wire cable and plug (3rd wire for grounding); 3-jaw Jacobs chuck and key; automatic-release switch with locking pin for optional use; spade handle; detachable pipe handle.

Optional Equipment — No. 1 or No. 2 Morse taper socket in place of chuck (no extra charge).

⅝-INCH HEAVY DUTY DRILL

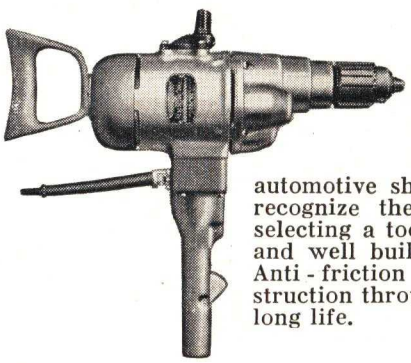


Roller-bearing on chuck spindle, to withstand severe side and end thrust; ball-bearing construction throughout. Ample powered for heavy-duty service.

Standard Equipment — 3-conductor cable and plug; 3-jaw Jacobs chuck and key; automatic-release switch with locking pin; spade handle; detachable pipe handle.

Cat. No.	Capacity in Steel	No-Load Speed	Overall Length	Net Wt.Lbs.	Price Each
42	⅝-inch	450 RPM	20	21¼	**$95.00**

¾-INCH HEAVY DUTY DRILL



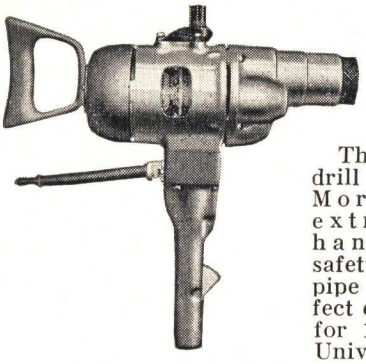
Building contractors, heavy machinery shops, car and locomotive maintenance shops, automotive shops, etc., will recognize the economy in selecting a tool as powerful and well built as this one. Anti-friction bearing construction throughout insures long life.

Cat. No.	Capacity in Steel	No-Load Speed	Overall Length	Net Wt.Lbs.	Price Each
45	¾-inch	375 RPM	21	27¼	**$105.00**

BLACK & DECKER ELECTRIC TOOLS

Universal Motors Operate on A.C. or D.C.

1-INCH HEAVY DUTY DRILL



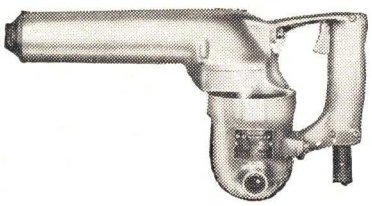
This large capacity drill is equipped with Morse taper socket, extra long switch handle with special safety switch and long pipe handle for perfect control. Available for 110 or 220 volts. Universal motor.

1-inch Heavy Duty Drill (illustrated) has taper-roller spindle bearing, No. 3 Morse taper socket.

Cat. No.	Capacity in Steel—Drilling	Reaming	No-Load Speed	Overall Length	Price Each
47	1-inch	0-⅝"	350	20	**$120.00**

Special speeds—275, 600 or 900 r.p.m., **$5.00** extra.

PORTABLE ELECTRIC HAMMERS

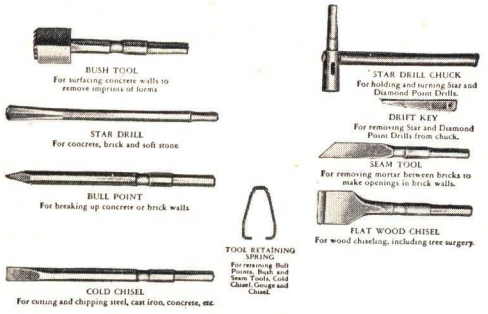


These electric hammers are particularly suitable for any application requiring a rapid hammer blow. They are tremendous time savers when used for drilling with star drills or speed-bits in concrete and brick; also suitable for driving steel chisels, wood-working chisels; for demolition work, etc.

Made in four sizes—specifications as follows:

Cat. No.	Capacity Inches	No. Blows Per Minute	Overall Length	Net Wt. Lbs.	Price Each
102	½	2400	12⅞	5¾	**$100.00**
103	¾	2300	14⅝	10¾	**130.00**
104	1⅛	2200	18⅛	19¼	**160.00**
105	2	1950	20¼	29¼	**195.00**

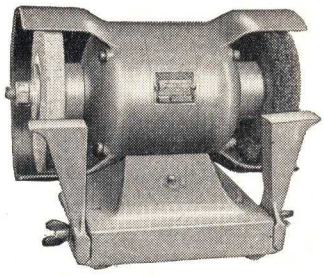
B & D HAMMER TOOLS



The above illustrations show only a few of the accessories which can be furnished for use with B & D hammers. Prices on request.

BLACK & DECKER ELECTRIC TOOLS

6-INCH STANDARD BENCH GRINDER

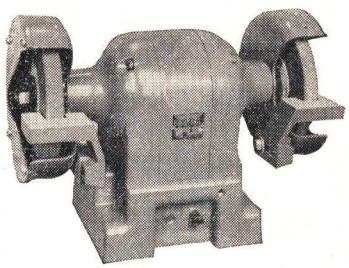


Wheel size, 6x⅝x½ inches; net weight, 31½ pounds. Motor rating, ¼ H.P., (1/5 H.P. for 25 cycle).

For all standard A.C. 1-phase volts and cycles only.

Price, complete; specify voltage and cycle....**$38.00**

6-INCH HEAVY-DUTY BALL-BEARING BENCH GRINDER



Wheel size, 6x¾x½ inches; net weight, 42 lbs. Motor rating, ⅛ h.p. Supplied for 50-60 cycle, single-phase A.C. 110 or 220 volt only.

Price, for 50-60 cycle, 1-phase A.C.....**$58.00**

8-INCH BALL BEARING BENCH GRINDER

Wheel size, 8x⅞x⅝ inches; net weight, 82 lbs. Motor rating, ¾ H.P. Motor not universal. Not available for D.C.

Price, for all available A.C. currents only....**$98.00**

10-INCH BALL BEARING BENCH GRINDER

Wheel size, 10x1x¾ inches; net weight, 120 lbs. Motor rating, 1 h.p., (¾ h.p. for 25 cycles). Motor, not Universal. Supplied in standard voltages A.C.

Price, specify voltage and cycle.....**$138.00**

DIEHL ELECTRIC GRINDERS

6-INCH "CLEARANCE TYPE" ELECTRIC GRINDER



Useful in garages, machine shops, industrial plants, home workshops, etc., for dressing and sharpening tools and similar light grinding and buffing operations. Designed with a flat face on the motor housing to permit the grinding of long pieces of material.

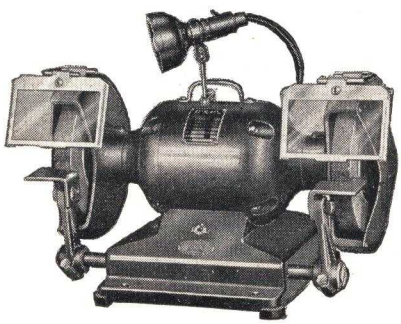
Motor—¼ H.P., 3450/2850 R.P.M. Totally enclosed, with dust sealed ball bearings. Especially designed for grinder service. For *115 volts, 60/50 cycles, A.C. operation.

Equipment—Two 6x¾-inch grinding wheels (1 coarse, 1 fine). 4 rubber feet, 6-ft. Approved rubber cord and plug. Convenient start-and-stop switch.

Price, 6-inch Electric Grinder.....**$37.00**

*Obtainable for 230 volts at **$2.00** additional.

7-INCH "DE LUXE HEAVY DUTY TYPE" ELECTRIC GRINDER



Ideal for use in woodworking plants, factories, machine shops, garages, etc., for handling the heavier grinding and polishing operations. Equipped with Shatter-proof glass eye shields and "Diehl-Lite" which throws a powerful, glareless flood of light on and about the work area.

Motor—½ H.P., 3450 R.P.M. Totally enclosed, with dust sealed ball bearings. Especially designed for grinder service. For *115 volts, 60 cycles, single phase, A.C. operation.

Equipment—Two 7"x1" grinding wheels (1 coarse, 1 fine). 10-ft. Approved rubber cord with plug. Convenient start-and-stop switch.

Price, 7-inch "De Luxe Heavy Duty" Grinder with "Diehl-Lite" and Eye Shields.....**$78.00**

Price, 7-inch "Heavy Duty" Grinder Only.... **68.00**

*Also obtainable for polyphase, for 50 cycles (2850 R.P.M.) and for 230 volts at addition in price.

IDEAL COMMUTATOR RESURFACERS

HAND TYPE RESURFACERS

Hand Type Resurfacers are equipped with various style handles to meet conditions found in any type of commutator or slip ring. They are used by simply holding the Resurfacer against the commutator and moving it from side to side as the motor turns over, under its own power.

PENCIL TYPE



Pencil Type (No Handle)

Used for fans or signal motors, for auto generators, locomotive headlight motors and other fractional H.P. motors. Standard size 6x⅝x⅜ inches.

FAN—SMALL MOTOR TYPE



Fan, Auto or Small Motor Type

This Ideal Resurfacer has a medium-grade stone on one side and a finish-grade stone on the other end of the handle. For use on small fractional H.P. motors. Standard size, ¾x½x⅜ inches.

STRAIGHT HANDLE TYPES



This type is used primarily on inaccessible types of commutators on small or enclosed motors.

Dimens., Inches					
L.	W.	T.	L.	W.	T.
1	x 1	x 2	2	x 1	x 2
1	x 1	x 1	3	x 1	x 2

TRAMWAY, VERTICAL AND RAILWAY HANDLES

For Medium Size Motors and Small Generators

Dimens. Inches		
L.	W.	T.
2	x 1½	x 2
2	x 2	x 2
3	x 2	x 2
3	x 3	x 2
4	x 3	x 2

Specify grade.



Tramway Handle



Vertical Adj. Handle



Railway Handle

Tramway Handle — Stout handle with a good grip, permanently mouned at a 45-degree angle.

Vertical Adjustable Handle—The knob handle is fastened permanently. The extra rod handle makes this type universal to meet practically all conditions.

Railway Handle — A stout handle with a good grip, permanently mounted in a vertical position.

POCKET TYPE



2-in-1 Tool—Handy, Pocket Type.

Made up in any combination of the five grades, two grades being cemented together. Standard sizes, 6 x 2 x 1; 8 x 2 x 1 inches.

Specifications and prices on request.

IDEAL COMMUTATOR RESURFACERS

SAW HANDLE TYPE



"Saw" Handle

Dimensions in Inches					
L.	W.	T.	L.	W.	T.
4	1	3	5	3	2
4	1½	3	5	3	3
4	3	2	6	2	3
4	4	3	6	4	3
4	2	2	8	4	3
5	2	3	.....		

This type is for use on large motors, small rotary converters, motor-generator sets, telephone generators, etc. Equipped with the convenient "Saw" type handle.

SLIP RING TYPES



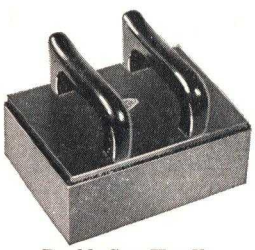
Slip Ring Type

These types are made to meet conditions of all rings. When space permits, use a resurfacer about 1-inch wider than the ring, thereby bridging over the entire width. The resurfacer should be three times as long as the flat spots as bridging over them assures a perfect job.

Supplied with "Saw" type handles. Specify diameter of Ring so stone may be arced to fit contour which is recommended for ring grinding.

Dimensions in Inches								
L.	W.	T.	L.	W.	T.	L.	W.	T.
4	1	3	4	2	3	6	2	3
4	1½	3	5	2	3	6	4	3
4	3	2	5	3	2	8	4	3
4	4	3	5	3	3	.....		

DOUBLE SAW HANDLE TYPE



Double Saw Handle

Dimensions in Inches					
L.	W.	T.	L.	W.	T.
4	8	3	5	9	3
5	7	3	6	10	3

Handle is mounted parallel to first dimension.

All sizes listed are equipped with two handles, which allows for two hand control. Supplied in either the convenient "Saw" or "Flat-Iron" type handles as selected.

BLOCK HANDLE OR TOOL TYPE



For use with precision grinders. Equipped with wood block handles. Can be made in any length or any size cutting face.

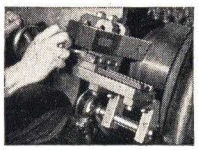
Dimensions in Inches								
L.	W.	T.	L.	W.	T.	L.	W.	T.
1	1½	5	2	2	5	1½	2½	8
1	2	5	1	1½	8	2	2	8
1½	2½	5	.....			.....		

Specifications and prices on request.

IDEAL MOTOR MAINTENANCE PRODUCTS

IDEAL PRECISION GRINDERS

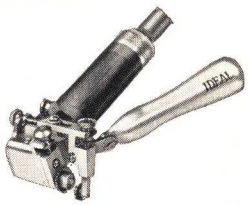
For Commutators and Slip Rings



Portable. For truing commutators and slip rings in their own bearings at normal operating speeds. Accurate to 1/1000 inch. Inherent "slaps" and bearing eccentricities automatically allowed for. New bracket supports make possible use on practically every type of machine. Carrying case at no extra charge.

Model	Base	Each	Model	Base	Each
Midget	6-inch	**$ 72.50**	Ideal	12-inch	**$145.00**
Perfect	12-inch	**120.00**	.....	.....	.....

IDEAL UNIVERSAL COMMUTATOR MICA UNDERCUTTER



For field and shop use — heavy duty service. Used for large or small commutators. Undercuts in narrow, confined spaces and to within ¼-inch of risers; works in spaces only 2¾ inches wide. Undercuts without removing brush riggings. Compact, speedy, accurate and easily controlled. Carrying case at no extra charge.

Cat. No. **25-029** complete with 115-volt, 60-cycle Motor ..... each **$145.00**

DIRECT DRIVE MODEL

The Direct Drive Model for medium service in the field and shop requires no dismantling of brushes or motor. The Cutter Head only 2½ inches wide cuts to within $\frac{3}{16}$ inch of the riser.

Designed for use with $\frac{23}{32}$ inch diam. x $\frac{5}{16}$ inch bore Ideal Saws and Milling Cutters.

Overall length, 14½ inches; width of head 2½ inches; cutter spindle speed approximately 3,000 r.p.m. Motor is "universal" type for either AC or DC. Shipping weight 9 pounds.

Cat. No.	Rating	Price Each
25-001	115 volt, AC-DC	**$100.00**
25-002	230 volt, AC-DC	**110.00**

IDEAL COMMUTATOR SLOTTING FILES



Specially designed for commutator use. Extremely hard, fast-cutting and long lived. Tapered and curved to allow for rocking motion.

Cat. No.	Description	Price Each
20-012	Straight 3-Edge Cutting Type	**$1.00**
20-013	7-inch Knife Edge Type	**.90**
20-007	Large 8-inch Type	**1.00**
20-008	Small 7-inch Type	**.95**
20-009	9½-inch Single End Type	**.85**

IDEAL GROWLERS

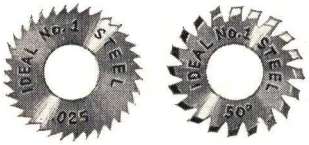


The Ideal Growler is an electrical device specially adapted for locating shorts, grounds, and opens in armatures. Made in many types for use on armatures of the smallest motors and generators to the largest.

Prices and specifications on application.

IDEAL MOTOR MAINTENANCE PRODUCTS

IDEAL COMMUTATOR SLOTTING SAWS AND MILLING CUTTERS



Ideal Commutator Saws and Milling Cutters are the result of years of experimental and test development. Their remarkable long life and sustained cutting and efficiency mean better, faster cutting — higher efficiency and lower costs. They outlast ordinary saws — as proved by actual experience.

High speed steel and special high speed steel. Available in all types and sizes.

Prices on application.

IDEAL BRUSH SEATER



For seating carbon-graphite or metal composition brushes. Brush is accurately seated under operating conditions, without shutting down the machine. Standard size, 4¾ x 1⅛ x ⅝ face.

Price, Ideal Brush Seater.....each **$0.50**

ARMATURE AIR GAP GAUGES



Very useful for plant maintenance work in checking the correct air gap between stator and rotor.

Gauges are made of thin leaves of specially tempered steel. Each leaf is plainly marked for thickness. Each set has a substantial steel case into which the gauges may be folded when not in use. Blades are ½ inch wide. Weight 8-inch size, 4 oz.; 16-inch size, 8 oz.

Cat. No.	Length Inches	Number of Leaves and Thickness (Inches)							
44-001	8	.002	.003	.004	.005	.006	.008	.010	.015
44-002	8	.002	.003	.004	.008	.016	.024	.032	.048
44-003	8	.002	.003	.005	.010	.015	.025	.040	.060
44-004	16	.006	.008	.010	.012	.015	.025	.....	.....
44-005	16	.005	.008	.010	.015	.025	.040	.....	.....
44-006	16	.005	.010	.015	.025	.040	.060	.....	.....

Price: 8-in. length, **$1.65**; 16-in. length, **$3.30**.

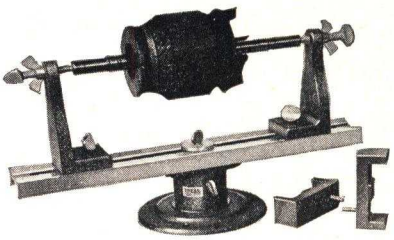
IDEAL COMMUTATOR CEMENT



A non-conductor, regardless of age. Highly adhesive. When once dry it stays in place and will not shrink.

Prices: ½ lb. can, **$1.00**; 1 lb. can, **$1.50**; 2 lb. can, **$2.50**.

IDEAL ARMATURE AND STATOR HOLDER



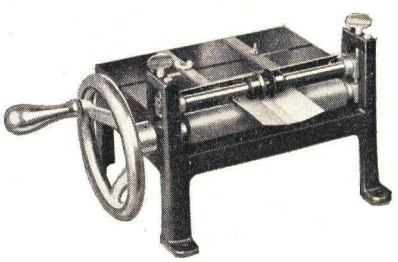
Eliminates makeshift equipment. Holds either armatures or stators while soldering leads, inserting insulation and wedges, banding, re-winding, etc. It takes any make fractional horsepower motor. Easy to adjust for different jobs.

Upper part of frame pivots on ball bearing to most convenient working position. Overall length 22 inches, overall height 12½ inches. Maximum length of armature shaft which can be suspended is 18 inches. Maximum diameter of stator which can be held is 12 inches.

Each upright casting is equipped with a malleable iron thumb screw, the ends of which are machined to a center taper to receive the centers of an armature shaft. Armatures are held by turning these screws into the shaft centers and locking in place with lock nuts. The angle iron cross-arms can be shifted on the base by loosening a thumb screw.

Cat. No.	Description	Wt. Lbs. Each	List Each
16–006	Holder, complete	29	**$46.00**

IDEAL INSULATION FORMER



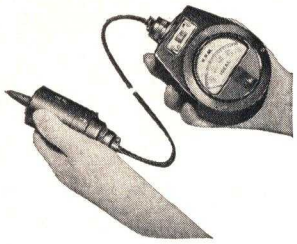
Quickly and easily forms any length of plain or cuffed insulation in any width up to 8 inches. All the slot insulation needed for any job can quickly be turned out with a few turns of the crank. Insures neat fitting and uniform slot and lining, which speeds up winding and prevents burned out armatures caused by lining being torn when coils are tamped into place.

Insulation is accurately guided between the roller and two creasing rollers. A ruler guide makes it easy to set the creasing rollers and guide bracket for any particular slot. Maximum width of insulation trough is 1½ inches, guide brackets adjustable to 8 inches maximum width.

For production purposes the hand wheel may be removed and the roller driven by a small electric motor.

Cat. No.	Description	Wt. Lbs. Each	List Each
40–001	Insulation Former	21	**$70.00**

IDEAL ELECTRIC TACHOMETER



Gives accurate check on production speeds. Two sizes for speeds up to 5000 r.p.m. Accurate to plus or minus 1 per cent of full scale deflection.

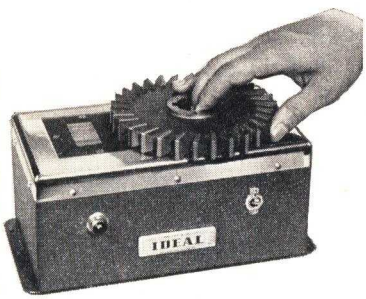
Consists of small generator coupled to electric meter. Variations in speed of generator are positively and accurately determined by the meter, which is capable of withstanding a momentary overload up to four times the maximum speed.

The meter is provided with two scales—"high" and "low," easily changed from one to the other with a switch on side of case. The units may be used together as a "Hand Type" Tachometer, or for many applications including permanent mounting. The generator and meter may be operated as a "Separable Type" and connected only by a two-conductor electric cord. Size of complete unit 3x7½x2½ inches, including ¾-inch shaft extension.

Weight, 3 lbs.

Cat. No.	Description	Wt. Lbs. Each	List Each
50–001T	0-2500 r.p.m	3	**$92.67**
50–002T	0-5000 r.p.m	3	**92.67**

IDEAL DEMAGNETIZERS



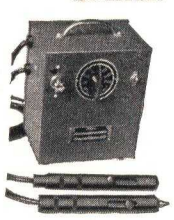
Powerful; portable. Quickly demagnetizes work held in magnetic chucks, tools, drills, punches, dies, etc. Clinging metallic dust, flakes, fine chips, etc, are easily removed by simply passing across the demagnetizer poles.

Large dies, castings, etc., can be demagnetized by moving the Demagnetizer across their surface. Made in two sizes, 5 ampere (6.35 sq. in. pole area) and 15 ampere (17.6 sq. in. pole area).

Weight, 17.5 lbs. and 40 lbs. respectively.

Cat. No.	Description	List Each
13–001	(5 amp. size) 115 v., 50-60 cy.....$	**48.67**
13–005	(15 amp. size) 115 v., 50-60 cy.....	**106.67**

IDEAL INSULATION TESTER



Detects grounds, shorts and broken wires. Tests up to 2500 volts. Seven test voltages: 500, 1000, 1250, 1500, 1750, 2000 and 2500.

Operates from any electrical outlet. All current carrying parts are full and carefully insulated. Spring operated safety sleeves, over the test points, which can only be bared by pressing forward the buttons on side of handles. Has three wire safety type cord. Rating 600 volt amp. (maximum).

Cat. No.	Description	Wt. Lbs. Each	List Each
41–001	115 v., 50-60 cycle.....	20	**$73.33**

IDEAL COIL WINDING EQUIPMENT

COIL WINDER DRIVE



Winds many types of coils such as field, mush and armature. Winds loops with diamond, round, square or rectangular cord. Accommodates standard Ideal Coil Winder Heads. Readily takes special forms. Easy to operate. Wide range of speeds adjustable from 41 to 410 R.P.M. Easily read counter records every turn of the machine.

Comes equipped with a heavy-duty, chatter-free clutch and automatic brake which stops the winding head almost instantly when clutch is released.

Maximum torque is delivered through two sets of carefully machined spur gears, driven by a variable speed pulley and ½ HP, 1750 R.P.M. motor.

At a speed of 41 R.P.M. using a Universal Coil Winding Head, the Ideal Coil Winder Drive will wind a 10½ round coil of No. 6 A.W.G. wire, or a 20-inch coil of No. 9 A.W.G. wire. In general, this drive will handle motor winding up to 5 HP.

Cat. No.	Voltage Rating	Price Each
15-017	115 V., 60 Cycle, Single Phase.....	**$395.00**
15-018	230 V., 60 Cycle, Single Phase.....	**395.00**
15-027	220/440 V., 50/60 Cycle, 3-Phase....	**395.00**

IDEAL COIL WINDER HEADS



Universal Model (Illustrated)—Winds up to 8 coils in series ranging in size from ⅜ x 6½ inches to 13 x 16½ inches. Easily winds many types of armature, field, transformer, motor coils, etc. Coils are wound from one wire — no soldering. Use an Ideal Coil Winder Drive or on face plate of any lathe having a 20-inch swing or larger.

Price, No. **16-001**, Universal Model....each **$100.00**

Midget Model—Makes field, mush, armature, transformer and motor coils. Winds loops with diamond, round, square or rectangular cord from 4 x 1¾ inches to 6½ x 8½ inches. Open construction permits winding up to six coils in series, thereby eliminating the necessity of soldering and taping joints.

Price, No. **16-002**, Midget Model.....each **$65.50**

Armature Winding Yoke—For winding any type of armature from 9 to 19 inches in length. Assures neater and faster armature winding. The armature may be rotated while clamped in position in the yoke.

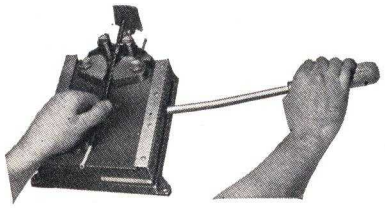
Price, No. **16-004**, Armature Winding Yoke .....each **$72.50**

Armature Winding Head—Adjustable to accommodate armatures up to 3 inches in diameter with 2¼-inch maximum armature stack. Simplifies the winding of small universal, 2-pole DC, or repulsion induction motor armatures. Easy to set up.

Price, No. **16-003**, Armature Winding Head .....each **$51.00**

IDEAL WIRE STRIPPING EQUIPMENT

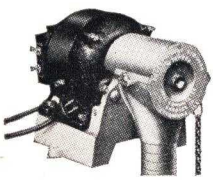
LEVER TYPE CABLE AND WIRE STRIPPER



For stripping all kinds of single and parallel conductors. Strips rubber insulation, asbestos, synthetic (plastic), glass, cambric, etc. Strips cables up to ⅝ inch diameter — any length. Easy to operate. Straight line pull eliminates scraping and nicking of wire. Well suited for large volumn stripping. Blades are quickly interchangeable. Furnished with set of plain blades for stripping parallel wire, heater cord, inner conductor and P.O.S.J. cord. Grooved blades to accommodate other sizes and types of wire are available in 15 standard sizes, and can be furnished at slight extra charge.

Price, No. **45-064**—Stripper including one set plain blades.....each **$120.00**

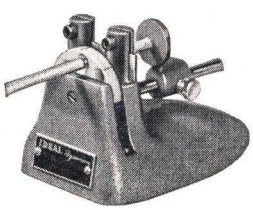
ROTARY TYPE WIRE STRIPPER



For production stripping. Strips all types of solid or stranded wire up to a maximum of ½ inch outside diameter. Motor is reversible at the flip of a switch, permitting either clockwise or counter-clockwise stripping according to natural twist of wire. Wire after stripping is properly twisted and polished, ready for terminals or soldering. Easy to operate — simply insert wire, step on foot pedal and give a quick pull on wire being stripped. Cutting blades are of finest tool steel, double edged. Blades may be sharpened repeatedly. Furnished with ⅛, ¼ and ⅜ inch guide bushings.

Price, No. **45-009**—115 volt, 60 cycle .....each **$166.67**

BENCH TYPE WIRE STRIPPER



For stripping solid or stranded wire up to ⅝ inch diameter. Has 8 hole dial wire guide to center different sized wire between cutting blades. Furnished with set of plain blades for stripping parallel wires, heater cords, inner conductors, P.O.S.J. cord, etc. Special grooved blades for stripping rubber, asbestos, and other similar covered wire may be secured at slight extra charge. Mounts on a bench leaving hands free for stripping. Easy to operate — just insert wire between oscillating blades to the adjustable stop, then a quick jerk cleanly and quickly removes the insulation. Eliminates guess work and prevents nicked wires and cut strands.

Price, No. **45-069**—including one set (2) plain blades .....each **$28.00**

IDEAL WIRE STRIPPING EQUIPMENT

"E-Z" FOOT OPERATED WIRE STRIPPER

A production stripper. Strips insulation from 8 gauge, ⅜ inch O. D. to the very finest wire, single or stranded. Strips all kinds of plain, twisted, parallel cord and P.O.S.J. cord in one operation. Strips outside sheath and both conductors at one time. Particularly designed for rubber covered wire. Two types of blades are furnished — a single V-notch for single conductors and a double V-notch for duplex cord. Easily adjustable for varying diameters of wire being stripped—assures accurate stripping without cut strands, nicked wire, or waste.

Stripper comes complete with sturdy metal stand ready to set up and use. It is foot operated. Every time foot pedal is pressed, the wire is gripped, insulation cut, stripped off and released ready for another wire to be inserted.

Price, No. **45-019** complete with one set (2) single V blades.....each **$113.33**

HANDI-GRIP WIRE SKINNER AND WIRE STRAIGHTENER

A handy tool designed to cut and strip insulation, scrape wire and straighten kinks and sharp bends. Hardened tool steel blades have the cutting edges hollowed in the center to prevent wire from slipping out of the tool. Blades are removable for resharpening. The unit is light, compact, and sturdy — does not tire hands.

Price, No. **45-021** Wire Stripper.....each **$1.33**

HOT BLADE WIRE STRIPPER

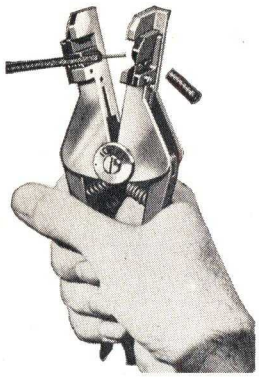


For production stripping. Strips cotton, silk, synthetic (plastic) insulation or rubber coverings from fine, stranded or solid conductors that does not exceed ⅜ inch. Easy to operate — simply place wire between the blades, depress the foot pedal, give a slight twist to the right or left. A slight pull removes the insulation — leaving an even edge.

Simple adjustments are provided for stripping lengths, diameter of wire, and blade heat. Stripping length is adjustable from ¼ to 1½ inches. A "Hi-Lo" switch mounted between the individual blade controls makes possible the adjustment of heat for heavy, average and light insulation. Compact, self-contained, easily installed, modern in appearance. Except for foot pedal, all parts (stripping head, water pan and exhaust) are in a single unit. (Note: This stripper is not suited for stripping asbestos, metallic, or other weather-proof covering.)

Price, No. **45-073** Wire Stripper.....each **$333.33**

IDEAL STRIPMASTER WIRE STRIPPER



The only hand type Wire Stripper with automatic single-squeeze operation. Exclusive automatic feature holds jaws open after stripping to permit removal of wire and prevent crushing. A single squeeze of the handles strips wire clean and bare up to a full ⅞ inch. There is no nicking or fraying of wire.

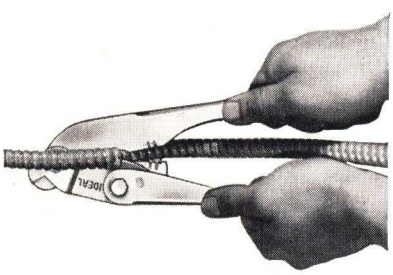
The narrow span between the handles and a light weight of only 10 ounces assure a comfortable grip. Simple design and sturdy construction make it practically abuse-proof. Blades are specially hardened for long service and can be changed with the removal of only two screws.

Strips any of the following wire: Building, fixture or telephone wire — lamp, portable equipment and appliance cords. Automotive wiring, radio, instrument wire and cable — switchboard and aviation wire, also FM and TV down lead wire.

Cat. No.	Wire Gauge	Price Each	Extra Blade No.	Price Per Pair
*45-090	8 to 10	$6.40	L-4419	$1.33
45-091	10 to 16	6.40	L-4420	1.33
*45-092	10 to 22	6.40	L-4421	1.33
45-093	16 to 22	6.40	L-4422	1.33
45-094	16 or 18 or FM and TV down lead wires	6.40	L-4437	1.33

*Strip only. No cutting edge.
Blades are interchangeable on all models.

IDEAL BX ARMOR CUTTER



Cuts BX Armor in one operation. Just open the jaws and snip. Jaws are formed to take BX cable of any make, two or three wire, No. 10 or No. 14. No adjustments are necessary. Cuts quickly and cleanly without injury to wire insulation.

Handy pocket size. Hardened steel cutting blade is removable for sharpening. Blade is also replaceable. Weight, only 12 ounces.

Price, No. **45-079** BX Armor Cutter.....each **$4.33**

IDEAL CABLE RIPPER AND WIRE GAUGE



This ripper cuts cleanly, easily and quickly. Just the tool for use on nonmetallic sheathed duplex cable or lead-covered cable. The case-hardened cutting point gives long service.

Can also be used for ripping outer sheathing of other cords, lead cables, etc., where outside diameter is ⅝ in. or smaller.

Price, No. **45-018**.....each **$0.60**

NATIONAL EZ CABLE RIPPER

For Non-metallic sheathed cable, braided or plastic. Lays open cable without scoring the conductors. Designed especially for the new, smaller diameter cables.



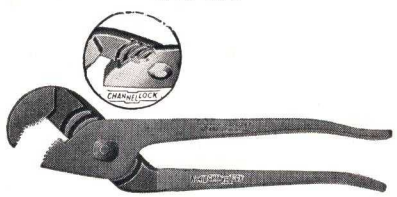
Cat. No.	Unit Pkg.	Std. Pkg.	Pkg. Wt.
9020-EZ	50	100	4½

CHAMPION DeARMENT TOOLS

CHANNELLOCK SELF-GRIPPING PLIERS

The Channellock design provides a quick, positive grip when pressure is applied to only one handle. The greater the pressure, the tighter the grip. The exclusive tongue and groove joint makes a plier far superior to the conventional type.

No. 410



A heavy-duty self-gripping plier which will hold work of any shape with a positive pipe wrench grip. Polished steel finish. Length, 9½ inches; capacity, $\frac{3}{16}$ to 1⅛ inches. Packed 6 to a carton; weight per dozen, 12½ pounds.

Price, **No. 410**.....each **$3.20**

No. 420

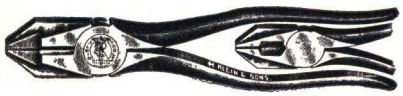


The wide range of adjustments of the No. 420 Pump Plier makes it adaptable to a multitude of uses. The adjustment eliminates wear on the joint bolt and greatly prolongs the life of the tool. Five adjustments. Length, 9½ inches; capacity, $\frac{3}{16}$ to 1⅝ inches. Packed 6 to a carton; weight per dozen, 9 pounds.

Price, **No. 420**.....each **$2.90**

KLEIN TOOLS

NO. 201 SIDE CUTTING PLIER

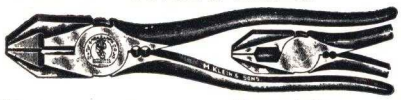


Handles temper blued, polished head and jaws, scored jaws.

Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each
201-5	5	3	$6.00	201-8	8	11¾	$8.00
201-6	6	5¼	6.50	201-9	9	14	8.50
201-7	7	7¼	7.00	.....	..	.....	.....

NO. 212 SIDE CUTTING PLIER

Same as No. 201 with addition of sleeve joint twister.



Cat. No.	Lgth. In.	Sleeve B&S Ga. Open.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Lgth. In.	Sleeve B&S Ga. Open.	Wt. Lbs. Per Doz.	Price Each
212-6	6	14	5¼	$7.00	212-8	8	10	11¾	$8.50
212-7	7	14	7¼	8.00	.....	..	....	.....	.....

NO. 201-N.E. SIDE CUTTING PLIER



the nose is Identical with series No. 201 except that rounded to permit easier working in confined space and all edges rounded to prevent nicking of wire. Polished head and temper-blued handles.

Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each
201-6-NE	6	5¼	$6.50	201-8-NE	8	11¼	$8.00
201-7-NE	7	7¼	7.00	201-9-NE	9	13½	8.50

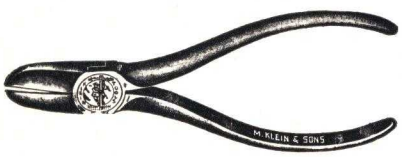
NO. 212-N.E. SIDE CUTTING PLIER

Identical with series 201-N.E. but has opening provided for twisting double tube sleeve joints. Sleeve opening in 6- and 7-inch pliers for Nos. 14 and 17 N.B.S. and No. 12 B. & S. (.045). Sleeve opening in 8-inch pliers for No. 12 N.B.S. and No. 10 B. & S. (.104).



Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each
212-6-NE	6	5¼	$7.00	212-8-NE	8	11¾	$8.50
212-7-NE	7	7	8.00	.....	..	.....	.....

NO. 202 OBLIQUE CUTTING PLIER



For close cutting in confined places, will cut silk insulation cleanly. Polished head and blued handle. Lap joint.

Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each
202-5	6	3¾	$5.50	202-6	6	4	$5.60

NO. 245 OBLIQUE CUTTING PLIER



This plier measures exactly 5 inches in length. It is slightly smaller in all dimensions than the 202-5 and will be found particularly convenient as it can easily be carried in vest pocket.

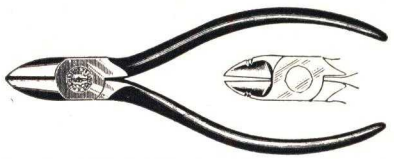
Weight per dozen, 3 pounds.

Price, No. **245-5**, size 5-inch.....each..**$5.50**

All Pliers, Polished Heads and Temper-Blued Handles. Standard Package 6 in a box.

KLEIN TOOLS

NO. 245-W OBLIQUE CUTTING PLIER



This tool has two "W" shaped notches at back of knives. Designed for removing acetate cellulose insulation from .050 and .058 wires used on telephone distributing frames, etc. Wt. per doz. 3 lb.

Price, No. **245-W**, size 5-inch.....each **$6.00**

NO. 240-S OBLIQUE CUTTING PLIER

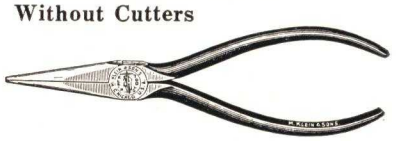
Same as 202 series but with addition of stripping notch and openings for twisting sleeves. Wt. per dozen, 3¾ pounds.



Price, No. **240-S**, size 5-inch.....each **$6.00**

NO. 301 LONG NOSE PLIER
Without Cutters

Perfected to meet a long-felt want of electrician and general mechanic. For switchboard, telegraph and telephone work, armature winding, etc.



Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each
301-5	5	3¼	$4.90	301-7	7	4¼	$5.50
301-6	6	3¾	5.00	.....	..	.....	.....

NO. 203 LONG NOSE PLIER
Side Cutting



Same as No. 301 series with addition of cutting knives.

Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each
203-5	5	3¼	$5.50	203-7	7	4¼	$6.30
203-6	6	3¾	6.00	.....	..	.....	.....

NO. 303-6 LONG NEEDLE NOSE PLIER

Has all the features of No. 301 series, except that the points of the nose are of the needle point pattern. Polished head and temper-blued handles. Standard package 6. Weight per dozen, 3¾ pounds.



Price, No. **303-6**, size 6-inch.....each **$5.00**

NO. 317 CHAIN NOSE PLIER
Without Cutters



This plier is intended for general use where a shorter nose is desirable. One size only.

Weight per dozen, 3½ pounds.

Price, No. **317-6**, size 6-inch.....each **$5.00**

All Pliers, Polished Heads and Temper-Blued Handles. Standard Package 6 in a box.

KLEIN TOOLS

NO. 5139 CANVAS TOOL-PACK



A sturdy, brown, canvas bag, approximately 6 x 12 inches with heavy zipper that instantly opens or closes the full length mouth. Plenty of room for pliers, drill, wrenches, etc.

Price, No. **5139** Canvas Tool-Pack.....each **$2.00**

COMBINATION TOOL POCKETS



No. 5118-K



No. 5118-S

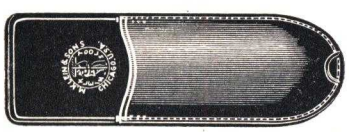


No. 5118-R

These pockets are made of heavy harness leather. Opening at bottom prevents accumulation of dirt or water. Top flap of double thickness leather for riveting to belt. (The plier compartment fits 6, 7, 8 and 9-inch side-cutting pliers.)

Cat. No.	Description	Wt. Lbs. Per Doz.	Price Each
5118-K	For Plier and Knife	7½	**$4.20**
5118-S	For Plier and Screwdriver	5½	**4.00**
5118-R	For Plier and 6-ft. Rule....	7½	**4.20**

NO. 5163 KNIFE POCKET



This harness leather pouch is made especially for No. 1560-3 skinning knife. It can be carried in hip pocket or riveted to belt. Lock stitched with genuine hot waxed linen thread. An opening at bottom prevents accumulation of water or dirt. Provides a safe method for carrying a useful knife.

Price, No. **5163** Knife Pocket.....each **$3.00**



DETACHABLE HOLSTER

Made of heavy harness leather with loop to slip over belt. Carries 6, 7, 8, or 9-inch side cutting pliers. Mouth of pocket framed to hold open position permanently.

Cat. No.	Length Inches	Wt. Lbs. Per Doz.	Price Each
5116	10	6	**$4.20**

KLEIN TOOLS





No. 5107 No. 5112

PLIER POCKETS

No. 5107 is made of good quality leather. For carrying pliers when at work. Has slits through which belt is inserted.

No. 5112 same as No. 5107 except plier does not protrude through.

Cat. No.	Size Inches	Wt. Lbs. Per Doz.	Price Each
5107	3½x8½	3	**$2.00**
5112	3½x9	4¾	**3.50**

RUBBER GLOVE POUCH

Scotch chrome leather pocket for carrying rubber gloves (folded). Comes equipped with snap and D ring ready to attach to body belt.

No. 5120-15 same as above but larger to accommodate gloves without folding.

Cat. No.	Size Inches	Wt. Lbs. Per Doz.	Price Each
5120-9	7½x9	4½	**$6.00**
5120-15	7½x15	7	**7.50**





HIP POCKET TOOL CASE

Made of good quality leather for carrying pliers or other tools in hip pocket; prevents cutting of clothes or possible injury to the person.

Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each
5111	5x7	5½	**$4.00**

INSPECTOR'S LEATHER TOOL BAG



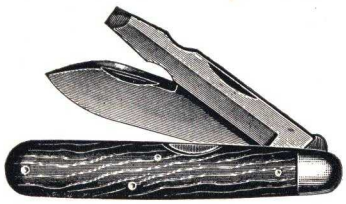
No. 5108-14

Best quality black harness leather; securely stitched edges; reinforced leather bottom, studded; two leather fastening straps, riveted on; black buckles; shoulder strap 1 inch wide, with extra piece 2¼ inches wide which serves as a pad; shoulder strap, fitted with black snap buckles, can be detached from bag; bag is also fitted with an extra strap across top so it can be carried like a grip if desired.

Cat. No.	Size In.	Wt. Lbs.	Price Each
5108-14	14x8	5	**$21.80**
5108-16	16x8	5¾	**22.70**
5108-18	18x8	6	**25.50**
5108-20	20x8	6½	**28.50**
5108-22	22x8	7	**30.00**
5108-24	24x8	7¼	**31.50**

KLEIN TOOLS

NO. 1550-2 "XELA" ELECTRICIAN'S KNIFE



Blades are made of high grade cutlery steel carefully tempered.

Locking feature on screw-driver blade is simple and of such construction that it does not wear out.

It automatically locks the blade when open, yet a slight pressure of the thumb releases the lock and permits blade to be closed readily; handle of cocobola, hard and durable.

Price, No. **1550-2** Double Blade.....each **$3.50**

NO. 1560-3 SKINNING KNIFE

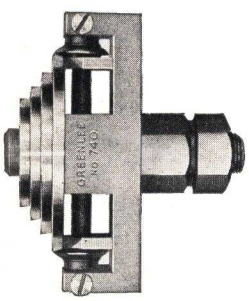


This skinning knife has "half hard" rubber handle molded on securely and provides adequate insulation as well as a generous grip. Shouldered out at the blade to prevent accidental cutting of glove or finger. Shape of blade brings the point below the curve. Back of blade ground flat for scraping. Hole in handle is through the solid rubber. Forged from first quality cutlery steel individually tempered.

Price, No. **1560-3** Skinning Knife.....each **$3.50**

GREENLEE KNOCKOUT TOOLS

NO. 740 KNOCKOUT CUTTER



Greenlee Knockout Cutters enlarge holes up to 3½ inches in diameter. Will cut through metal up to 10 gauge or ⅛-inch thickness in 1½ minutes or less per hole. The hole is left clean and round, requiring no filing to smooth off the edges.

Operation is simple. The cutting is done by the feed and drive action of two-wheel cutters.

Knockout Cutter

Cat. No.	Description	Price Each
740	For 1½", 2", 2½", and 3" Conduit	**$15.00**

Extra Parts

AV323	Lock Screws (2)	**.30**
AV324	Wheel Cutters (2)	**.50**
AV325	Feed Nut	**.20**
AV326A	Disc 1 $\frac{15}{16}$" for 1½" Conduit	**.70**
AV326B	Disc 2⅜" for 2 " Conduit	**.80**
AV326C	Disc 2⅞" for 2½" Conduit	**1.00**
AV326D	Disc 3½" for 3 " Conduit	**1.20**
AV327	Body	**5.00**
AV328	Shaft	**.80**
AV329	Drive Nut	**.80**
AV330	Retainer Screws (2)	**.45**
AV331	Cutter Bushings (2)	**.25**
AV332	Cutter Supports (2)	**.65**
AV333	Key Washer	**.25**
AV334	No. 7 Woodruff Key	**.05**

GREENLEE KNOCKOUT TOOLS

NO. 735 KNOCKOUT PUNCH SET



No. 735

This set is furnished with a leather case in which the punches are regularly packed. The set consists of 4 punches for cutting ⅞, $1\frac{3}{32}$, $1\frac{11}{32}$, $1\frac{11}{16}$-inch holes for ½, ¾, 1, and 1¼-inch conduit.

Improved Drive for ½-Inch Punch

To increase the length of service of the ½-inch Punch in cutting ⅞-inch holes in the heavier-gauge sheet metals, the No. 1387AV Drive Screw and No. 1388AV Drive Nut are available. These fit the standard No. AV121 Punch and No. AV122 Die for ½-inch conduit, as furnished with the No. 735 Set, and they take the place of No. AV322 ⅜-inch Cap Screw.

NO. 737 KNOCKOUT PUNCH SET

This set is packed in a leather case, similar to No. 735, but it consists of only two punches for cutting $1\frac{15}{16}$ and 2⅜-inch holes to take 1½ and 2-inch conduit.

NOS. 738 AND 739 KNOCKOUT PUNCHES



No. 738

Shown here is the No. 738 Punch. The No. 739 is of same design, but larger. By adding these two punches to Nos. 735 and 737 Sets, enlargements can be made for all sizes of conduit from ½ to 3-inch inclusive. The No. 738 makes a 2⅞-inch hole for 2½-inch conduit, and No. 739 makes a 3½-inch hole for 3-inch conduit.

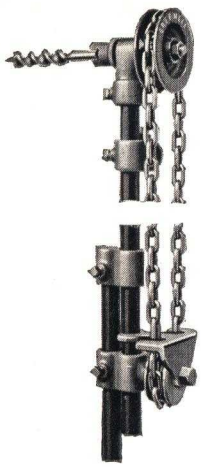
These two punches are not listed as a set, but are packed and sold individually.

Cat. No.	Description	Wt. Lbs.	Price
735	Knockout Punch Set for ½, ¾, 1, and 1¼-inch conduit	2¾	**$10.00**
.....	Improved Drive for ½-inch Punch (Drive Screw and Nut)	¼	**1.10**
737	Knockout Punch Set for 1½ and 2-inch conduit	4¼	**10.00**
738	Knockout Punch for 2½-inch conduit	5¾	**14.00**
739	Knockout Punch for 3-inch conduit	7¼	**19.00**

Extra Parts

No. 735 Knockout Punch Set		
	AV121—⅞" Punch for ½" Conduit	**$1.25**
	AV122—⅞" Die for ½" Conduit	**.65**
	AV123—$1\frac{3}{32}$" Punch for ¾" Conduit	**1.45**
	AV124—$1\frac{3}{32}$" Die for ¾" Conduit	**.80**
	AV125—$1\frac{11}{32}$" Punch for 1" Conduit	**1.65**
	AV126—$1\frac{11}{32}$" Die for 1" Conduit	**.95**
	AV127—$1\frac{11}{16}$" Punch for 1¼" Conduit	**1.90**
	AV128—$1\frac{11}{16}$" Die for 1¼" Conduit	**1.05**
	AV322—⅜" x 1¾" Cap Screw	**.25**
	AV249—¾" x 2⅞" Cap Screw	**.35**
Improved Drive for ½" Punch		
	1387AV—Drive Screw	**.75**
	1388AV—Drive Nut	**.35**
No. 737 Knockout Punch Set		
	AV439—$1\frac{15}{16}$" Punch for 1½" Conduit	**2.30**
	AV440—$1\frac{15}{16}$" Die for 1½" Conduit	**2.00**
	AV441—2⅜" Punch for 2" Conduit	**3.20**
	AV442—2⅜" Die for 2" Conduit	**2.50**
	AV304—¾" x 3½" Cap Screw	**.50**
No. 738 Knockout Punch		
	AV1429—2⅞" Punch for 2½" Conduit	**5.40**
	AV1430—2⅞" Die for 2½" Conduit	**5.00**
	AV1433—Drive Nut	**1.35**
	AV1434—Drive Screw	**2.75**
No. 739 Knockout Punch		
	AV1431—3½" Punch for 3" Conduit	**8.00**
	AV1432—3½" Die for 3" Conduit	**7.50**
	AV1433—Drive Nut	**1.35**
	AV1434—Drive Screw	**2.75**

GREENLEE NO. 750 JOIST BORER



Makes the electrician's job of joist boring easier by combining the latest developments in design with a construction that is accurate and high grade.

The bit chuck runs smoothly in needle bearings and is sturdy enough to drive bits that are larger than those used in other types of borers. Equipped with heavy round-link chain and newly designed Idler Pulley Safety Guard that prevents injury to the operator's hand. The steel chuck drives bits up to 1¼ inches in diameter. Foot Rest for supporting frame on floor, and one $\frac{11}{16}$-in. No. 44 Short Unispur Auger Fit furnished as equipment with each machine.

Cat. No.	Description	Price Each
750	Joist Borer (weight, 13 lbs.)	$20.00

Extra Parts

AV71	Chain Sprocket	$0.85
AV93	Pulley Hanger	.80
AV94	Spindle Head (old) AV94-2 (new)	.90
AV95	Foot Rest	2.75
AV96	Bit Chuck Cap	1.10
AV97	Bit Chuck Nut	.50
AV98	Spindle (old) AV98-2 (new)	1.35
AV99	Idler Pulley Guard	.75
AV100	Idler Pulley	.45
AV251	Bearing Collar (old style)	.30
AV252	Adjustable Clamp	.70
AV319	Adjustable Rest	.80
AV321	Spindle Nut with Lock Washer	.20
AV375	½ x 1¾ Hexagon Cap Screw	.05
AV376	⅜ x ½ Square Head Set Screws (5)	.05
AV377	Ball Bearings, (3) each (old style)	.30
AV379	Needle Bearings	.60
AV388	Welded Round-Link Chain, 13½ feet	7.50
AV389	Woodruff Key	.05
AV390	½-inch Washer	.05

IDEAL BORING MACHINE

Packaged unit. Sold knocked down, less pipe. Assembled on the job using ½-inch pipe or rigid conduit.

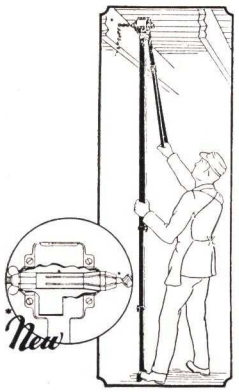
Drills holes at right angles (or at any angle) to rafters, joists or studdings for both floor and overhead work. The right angle boring makes a neater and better job and consumes less wire.

The Ideal bores five times as fast as brace or breast drill. It is quickly adjustable to any height from 7 to 11 feet on overhead work.



Description	Price
No. 36-001 Boring Machine with $\frac{11}{16}$" Bit	$33.33

HYKON BORING DEVICE



A high speed Boring Machine which has been used and endorsed by thousands of electricians for over 25 years.

Recent improvements, including the self-centering chuck and fewer working parts, make HyKon still the best buy. Operates much easier and is from 2 to 5 times faster than any chain machine.

One easy pull of the strap revolves the bit five times. Four easy strokes send the bit through the toughest joist. No bit breakage. Bores on a dead level so wire can be pulled through for 100 feet. Time and labor savings on one or two jobs pay for the machine. Guaranteed to stand up under the hardest use. Telescopic adjustment in a moment from 4½ to 13½ feet. Finished in durable black enamel. Weight packed, 20 lbs.

Description	List Price Each
HyKon Boring Device, including one $\frac{11}{16}$-inch Fast Boring Bit	$35.00
Universal Attachment	3.75
Old House Wiring Attachment	5.75

GREENLEE ELECTRICIAN'S BITS

No. 21 SOLID CENTER ELECTRICIAN AUGER BITS



These auger bits have a solid center type of twist, and single cutter head of the extension lip pattern. Fitted with a coarse screw point for fast feed, and have one spur for outlining hole, which insures smooth boring.

Standard package, ½ dozen in box.

Sizes in 16ths. Price per dozen.

Size	10	11	12
Price	$11.40	$13.30	$13.30

No. 16 UNISPUR ELECTRICIAN'S AUGER BITS



Sizes 4/16 inch through 10/16 inch are of standard Auger Bit dimensions; sizes 11/16 inch and larger have 5½-inch twist length, overall length 10 inches.

Size 16ths	Price Per Doz.	Size 16ths	Price Per Doz.	Size 16ths	Price Per Doz.
4	$11.00	9	$13.20	14	$18.15
5	11.00	10	13.20	15	20.90
3	11.00	11	15.40	16	20.90
7	12.10	12	15.40	18	26.40
8	12.10	13	18.15	20	30.80

GREENLEE BITS

No. 44 SHORT UNISPUR AUGER BITS



This pattern is made with a short twist and overall length for plumbers' use. Sizes 1-inch and smaller have about 3-inch twist, 5½-inch overall length, and larger sizes 2¼-inch twist, 5½-inch overall length. The smaller sizes have a medium pitch screw point, and the larger sizes, to permit easy boring, are fitted with a finer point.

Standard package is 6, sizes 1¼-inch and under; 3, in sizes over 1¼-inch.

Size 16ths	Price Per Doz.	Size 16ths	Price Per Doz.	Size 16ths	Price Per Doz.
11	**$15.40**	14	**$18.15**	22	**$35.20**
12	**15.40**	16	**20.90**	28	**48.40**
13	**18.15**	18	**26.40**	32	**57.20**

No. 48 BELL HANGER DRILL



This drill is made with twist 3¾ inches long.

Sizes in 32nds. Price per dozen.

Size	6	8	10	12	14	16
Price:						
12-inch	**$11.60**	**$12.40**	**$13.50**	**$14.75**	**$16.25**	**$18.60**
18-inch	**15.50**	**16.25**	**17.00**	**18.60**	**20.25**	**22.50**
24-inch	**19.40**	**20.25**	**21.00**	**22.50**	**24.00**	**26.35**

GREENLEE BIT EXTENSIONS



No. 900 has sufficient strength to drive a bit up to 1-inch diameter but small enough to follow a ⅝-inch bit. An accurately shaped recess in the chuck accommodates shank of bit, which is held by drawing holding sleeve against corners of the square.

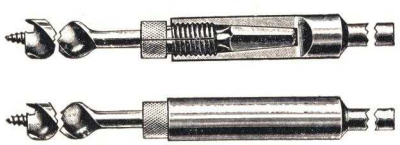
No. 925 bit extension is similar in design except made extra heavy to follow a $\frac{13}{16}$-inch auger bit and drive tools up to 2-inch diameter.

Standard packing, 1 in leatherette case.

	Price Each			
Lengths, In.	15	18	21	24
No. 900	**$2.85**	**$2.95**	**$3.10**	**$3.25**
No. 925	.....	**3.60**	.....	**3.80**

MEPHISTO TOOLS

EXTENSION BIT HOLDER NO. 89



This extension bit holder will go through a hole made by a $\frac{13}{16}$-inch bit and can be used on bits up to 1 inch in diameter.

Length Inches	Wt. Lbs. Per Doz.	Price Per Doz.	Length Inches	Wt. Lbs. Per Doz.	Price Per Doz.
15	10	**$27.00**	21	15	**$29.40**
18	12	**28.20**	24	18	**30.60**

GREENLEE EXPANSIVE BITS

NOS. 3 AND 4 PLAIN EXPANSIVE BITS



Standard packing, one in box; half dozen in carton.

Cat. No.	Description	Wt. Lbs. Per Doz.	Price Per Doz.
3	Small, ½ to 1½-inch.....	3⅛	**$20.00**
3A	Cutter, ½ to ⅞-inch.....	⅛	**3.00**
3B	Cutter, ⅞ to 1½-inch.....	¼	**3.75**
	Extra Clamps	⅛	**1.44**
	Extra Clamp Screws.....	⅛	**.60**
4	Large, ⅞ to 3-inch.....	7½	**26.00**
4A	Cutter, ⅞ to 1¾-inch.....	⅜	**5.25**
4B	Cutter, 1¾ to 3-inch	⅝	**6.00**
4C	Cutter, 2½ to 4-inch	⅞	**9.00**
	Extra Clamps	⅜	**1.80**
	Extra Clamp Screws	¼	**.70**

NOS. 5 AND 6 SETFAST EXPANSIVE BITS

(Patent No. 1,727,452)



Standard Packing in leatherette case; one in box, half dozen in carton.

Cat. No.	Description	Wt. Lbs. Per Doz.	Price Per Doz.
5	Small, ⅝ to 1¾-inch.....	5	**$33.00**
5A	Cutter, ⅝ to 1⅛-inch.....	¼	**4.50**
5B	Cutter, 1⅛ to 1¾-inch.....	⅜	**5.65**
	Extra Adjusting Barrels.....	⅛	**2.25**
	Extra Eccentric Pins	⅛	**2.25**
6	Large, ⅞ to 3-inch.....	8¼	**39.00**
6A	Cutter, ⅞ to 1¾-inch.....	⅜	**7.90**
6B	Cutter, 1¾ to 3-inch	⅜	**9.00**
6C	Cutter, 2½ to 4-inch	⅞	**13.50**
	Extra Adjusting Barrels.....	¼	**2.70**
	Extra Eccentric Pins	¼	**2.70**

HACK SAW BLADES



When ordering, specify length, gauge and number of teeth per inch.

Lgth. In.	Wdth. In.	Gauge	Teeth Per Inch	No. in Box	Per 100 Wt.	Per 100 Price
10	½	025-23	18-24-32	100	3⅝	**$ 8.00**
12	$\frac{9}{16}$	025-23	14-18-24-32	100	4¼	**9.60**

MISENER ROTARY HACK SAW

In Fractional Diameters from ⅝" to 15"

Cuts finished holes in steel, sheet metals, wood, cast iron, slate, plastics, plaster, etc. Blades are guaranteed non-shatterable.

Standard tool equipment in electrical, plumbing, heating, automotive, sheet metal, plastics, air conditioning, refrigeration, woodworking, general industrial trades.

HOLE-MASTER TOOLS
(Multiple-cut Type)



Type P—For Power **Type B—Bit Brace**
(Specify P or B)

Electricians' Tools

No. 2—Complete with 9 sizes of blades which cut outside diameters of iron pipe or conduit for a slip fit from ¾ to 4 inches diameter, with ¾ inch depth of blades*.

Type B—for bit brace.....**$18.50**
Type P—for power tool.....**18.50**
Type R—ratchet handle attachment.....**20.00**
Extra set of blades.....**6.25**

No. 4—Complete with 6 sizes of blades which cut outside diameters of iron pipe or conduit for slip fit from ½ to 2 inches diameter, with ¾ inch depth of blades*.

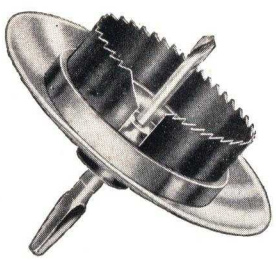
Type B—for bit brace.....**$11.00**
Type P—for power tool.....**11.00**
Extra set of blades.....**3.20**

*Cuts made are ¼-inch less than blade depth.

Replacement Blades No. 24 for Nos. 2 and 4 Tools —Iron Pipe and Conduit Size for Slip Fit

Depth	Dia.	½	¾	1	1¼	1½	2	2½	3	3½	4
¾"		.50	.50	.50	.55	.55	.60	.70	.85	.95	1.05
1"		.75	.80	.80	.85	.90	.95	1.05	1.05	1.25	1.40
1½"		1.25	1.25	1.25	1.35	1.35	1.40	1.50	1.50	1.80	1.95
‡		⅞	1⅛	1⅜	1¾	2	2⅜	3	3½	4⅛	4⅝

‡Actual hole size.



MISENER ROTARY CEILING SAW

Will cut an opening in the ceiling for the installation of an outlet box as specified in the National Electrical Code. The pan catches the cuttings and plaster while the cut is being made.

3½" dia. tool for 3¼" dia. box with 1½" depth of blade.....**$6.50**
Extra blades, each.....**1.50**
4¼" dia. tool for 4" dia. box with 1½" depth of blade.....**7.85**
Extra blades, each.....**1.80**

MISENER ROTARY HACK SAW

GENERAL PURPOSE HOLE-MASTER TOOLS
(Multiple-cut Type)

No. 1—Complete with 11 sizes of blades which cut actual diameters from 1 to 3½ inches (with ¼" graduations in diameters). Depth of blades ¾ inch*.

Type B—for bit brace.....**$17.50**
Type P—power tool.....**17.50**
Type R—ratchet handle attachment.....**19.00**
Extra set of blades.....**7.15**

No. 3—Complete with 6 sizes of blades which cut actual diameter from ¾ to 2 inches (with ¼" graduations in diameters). Depth of blades ¾ inch*.

Type B—for bit brace.....**$10.50**
Type P—power tool.....**10.50**
Extra set of blades.....**3.15**

No. 3X AND No. 7 TOOLS

No. 3X—Complete with 7 sizes of blades which cut actual diameters from ¾ to 2¼ inches (with ¼" graduations in diameters). Depth of blades ¾ inch*.

Type B—for bit brace.....**$11.50**
Type P—power tool.....**11.50**
Extra set of blades.....**3.75**

No. 7—Complete with 11 sizes of blades which cut actual diameters from 2 to 7 inches. Depth of blades 1 inch*.

Type B—for bit brace.....**$24.00**
Type P—power tool.....**24.00**
Type R—ratchet handle attachment.....**25.50**
Extra set of blades.....**14.45**

*Cuts made are ¼-inch less than blade depth.

Replacement Blades No. 120 for Hole-Master Multiple Blade Tools

Blades for No. 1 Tool—diameters from 1" to 3½" only. (With ¼" graduations in diameters.)
Blades for No. 3 Tool—diameters from ¾" to 2" only. (With ¼" graduations in diameters.)
Blades for No. 3X Tool—diameters from ¾" to 2¼" only. (With ¼" graduations in diameters).
Blades for No. 7 Tool—diameters from 2" to 7" only. (With ¼" and ½" graduations in diameters.)

Blade Depth	Dia. Sizes ¾	1	1¼	1½	1¾	10 Teeth to Inch 2	2¼	2½	2¾
¾"	.45	.45	.55	.55	.55	.60	.60	.65	.65
1"	.75	.75	.80	.80	.85	.90	.95	.95	.95
1½"	1.25	1.25	1.25	1.35	1.35	1.35	1.40	1.45	1.45
2¼"				1.65	1.75	1.85	1.95	2.05	2.10

Blade Depth	Dia. Sizes 3, 3¼	3½	4	4½	5	10 Teeth to Inch 5½	6	6½	7
¾"	.85	.85	1.05	1.05	1.30	1.30	1.45	1.45	1.45
1"	1.05	1.05	1.25	1.35	1.40	1.50	1.60	1.65	1.75
1½"	1.50	1.50	1.80	1.80	1.95	2.05	2.15	2.30	2.35
2¼"	2.15	2.25	2.45	2.45	2.60	2.70	2.70	3.05	3.10

Misener SPEEDEX High Speed Tools and Extra Blades are available in graduated fractional diameter sizes from ¾ inch to 8 inch; blade depths 1 inch and 1½ inch at prices higher than for standard tools and extra blades.

Single-cut tools for every purpose available. Fractional diameters ⅝" to 15", with replacement blades. Prices on request.

Special Hole-Cutting Tools made to order. Prices on request.

Important—The Misener Rotary Saw increases the range of a ½-inch electric drill to 3½ inches, and a ⅝-inch electric drill to 7 inches.

DI◇FORGE TWIST DRILLS

Patented



Cat. No. 720

Forged from a solid bar of Vanadium Tool Steel. This process produces a tougher and more durable drill than can be had by the machine process. It is intended to be used with a hand or electric hammer and not as a rotating drill.

Diameter Inches	Length Overall Inches	Depth of Hole Inches	Wt. Lbs. Per Doz.	Price Per Doz.
3/16	2 3/4	1 3/8	1/2	$10.80
1/4	3 1/4	1 3/4	3/4	10.80
5/16	4 1/4	2 1/2	1	12.80
3/8	5	3	1 1/4	14.80
7/16	5 1/4	3 1/4	1 1/2	18.80
1/2	5 3/4	3 1/4	2	22.80
9/16	5 7/8	3 3/4	2 1/2	26.80
5/8	6 1/8	4	2 1/2	28.80

DI◇FORGE TWIST DRILL SETS

Put up in sets containing one holder and one each 3/16, 1/4, 5/16, 3/8, 7/16, and 1/2-inch DI◇FORGE twist drill points.

With Type C Holder, No. **755-S**.....per set **$8.00**
With Type B Holder, No. **750-S**.....per set **7.00**

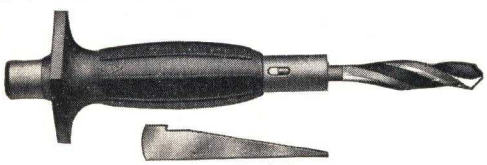
DIAMOND DRILL HOLDERS

To fit Diamond Di-Forge and Diamond N point.



Cat. No. 750

Style B Drill Holder.....per doz. **$24.00**



Cat. No. 755

Style C Holder, Rubber Grip.....per doz. **$48.00**

DIAMOND N DRILLS



Cat. No. 700

4 Point Drills



Cat. No. 710

Single Point Drill

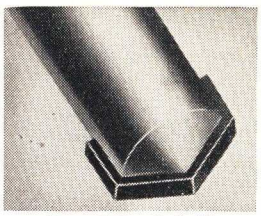
PRICE PER DOZEN

Lgth. In.	Diameter Drill, In. 1/4	5/16	3/8	7/16	1/2	9/16 5/8	11/16 & 3/4
8	$8.25	$8.25	$8.25	$8.70	$9.65	$11.65	$13.70
12	8.50	8.50	8.50	9.00	10.00	12.00	14.00
18	11.00	11.00	11.00	11.50	12.50	15.00	17.50
24	13.50	13.50	13.50	14.00	15.00	17.50	20.00

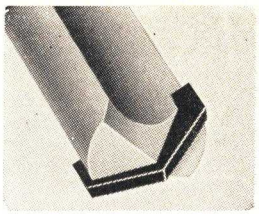
Lgth. In.	Diameter Drill, In. 13/16 & 7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
8	$15.30	$17.00	$23.00	.....	.....	.....
12	16.00	18.00	24.00	$30.00	$40.00	$50.00
18	20.00	22.50	28.00	35.00	45.00	56.00
24	22.50	25.00	32.00	40.00	50.00	62.00

Lgth. In.	Diameter Drill, In. 1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2
12	$60.00	$75.00	$90.00	$105.00	$135.00	$165.00
18	66.00	81.00	97.00	112.00	145.00	175.00
24	72.00	87.00	104.00	120.00	165.00	195.00

CARBOLOY MASONRY DRILLS



Round Shank Drill for shallow holes.



Fluted Shank Drill for shallow and deep holes.

Carboloy Masonry Drills give clean, true sized holes up to four times faster and quieter. Drills of either Carboloy line fit into rotary drills, drill presses or ordinary hand braces.

Available in three Kit Assortments of six popular sizes, **$10.40**, **$12.45**, and **$15.25** each respectively.

Order No. Round Drill	Order No. Fluted Drill	Nominal Dia.*	Price Round Drill	Price Fluted Drill	Std. Ctn. Qty.†	Shank Dim. Dia. "B"	Shank Dim. Lgth. "C"	Drill Lgth. "D"	Min. Drill
DM-3	.....	5/16	$1.40	.....	12	5/16	.....	3	.198
DM-4	.....	1/4	1.40	.....	12	5/16	.....	4	.260
DM-5	.....	5/16	1.50	.....	12	1/4	.....	4	.328
DM-6	FDM-6	3/8	1.60	$2.15	12	5/16	.....	4	.390
DM-7	FDM-7	7/16	1.85	2.40	6	3/8	.....	6	.458
DM-8	.....	1/2	2.05	.....	6	3/8	.....	6	.525
.....	FDM-8	1/2	.....	2.70	6	5/16	.....	6	.525
DM-9	FDM-9	9/16	2.30	3.00	3	7/16	.....	6	.587
DM-10	FDM-10	5/8	2.45	3.30	3	1/2	.....	6	.650
DM-12	FDM-12	3/4	3.15	4.20	3	1/2	1 5/8	6	.775
.....	FDM-14	7/8	.....	5.10	3	1/2	1 5/8	6	.905
.....	FDM-16	1	.....	7.20	3	1/2	1 5/8	6	1.030
.....	FDM-18	1 1/8	.....	8.70	1	1/2	1 5/8	6	1.160
.....	FDM-20	1 1/4	.....	10.50	1	1/2	1 5/8	10	1.285
.....	FDM-24	1 1/2	.....	12.90	1	1/2	1 5/8	10	1.535

*Sufficient oversize allowances are provided for proper hole size required for installation of expansion shields, anchors and toggle bolts.

†All drills are individually packaged, complete with operating instructions.

How to Order: Specify drill order number. (Order in standard package quantities whenever possible.)

CLAYTON & LAMBERT TORCHES

No. 32A—MECHANIC'S STANDARD TORCH



Dependable performance either indoors or outdoors. Generates a large, powerful, steady blue flame which can be reduced to a small flame for light work. Burner is made with removable jet block and cleaner pin. Blunt control valve makes it impossible to enlarge orifice. Burner protected with a full skirted heavy windshield securely fastened in place. Heavy gauge brass tank made with concave bottom which serves as a funnel in filling. Automatic pump. Regularly supplied for burning gasoline. Kerosene may be used by changing jet block and cleaner pin.

No. 238 is similar to No. 32A but smaller.

Cat. No.	Cap. Qts.	Shpg. Wt. Lbs.	Price Each	Cat. No.	Cap. Pints	Shpg. Wt. Lbs.	Price Each
32A	1	5	**$14.70**	**238**	1	4 1/4	**$11.70**

No. 144A—MECHANIC'S MEDIUM TYPE TORCH

Produces and excellent flame of suitable volume for ordinary work. Flame smoothly regulated from high to low. Burner protected with a light "snap-on" windshield. Heavy gauge brass tank made with concave bottom which acts as funnel in filling. Automatic pump. Regularly supplied for burning gasoline. Kerosene may be used by changing jet block and cleaner pin.

Cat. No.	Capacity Quarts	Shpg. Wt. Lbs.	Price Each
144A	1	4 3/4	**$11.70**

ARMSTRONG TOOLS

ADJUSTABLE STOCKS AND DIES—FOR PIPE



Each set consists of an Armstrong Adjustable Stock with Armstrong "Kalorized" Adjustable Pipe Dies and Ring Bushings for each threading size, with screws, handles and wrench. Packed in substantial carton.

The leading threads in the double taper throat distinguish these dies. The full size leading threads pull the dies onto the pipe without pushing.



Armstrong "Kalorized" Dies start a clean, true thread, over the meanest burr. The metal cutting edge of each die has its individual rake angle. These dies shear, they do not scrape or hog in. They slide smoothly and evenly around the pipe.

Set No.	Threading Pipe Sizes—Inches	Sets Wt. Lbs.	Price Per Set	Extra Dies Per Pair
1½	⅜, ½, ¾	5	$15.20	$3.20
1½	⅛, ¼, ⅜, ½	5½	18.00	3.20
1½	⅛, ¼, ⅜, ½, ¾	6	20.80	3.20
2	¼, ⅜, ½, ¾, 1	12½	24.00	4.00
2	⅛, ¼, ⅜, ½, ¾, 1	13½	28.00	4.00
2	⅜, ½, ¾, 1	11½	21.00	4.00
2	½, ¾, 1	10½	17.50	4.00
2½	½x¾, 1x1¼	12½	28.00	7.20
2½	¼, ⅜, ½x¾, 1x1¼	16	38.00	‡
2½	½x¾, 1x1¼, 1½	15¼	33.00	‡
3	1¼, 1½, 2	28	36.40	7.20
3	1, 1¼, 1½, 2	32	42.50	7.20
3	¾, 1, 1¼, 1½, 2	36	48.60	7.20
3	½, ¾, 1, 1¼, 1½, 2	40	54.70	7.20

Extra bushings each: No. 1½, **$0.60**; No. 2, **$0.80**; No. 2½, **$1.20**; No. 3, **$1.50.**

X between two sizes indicates Dies are double-ended.

‡Double end **$7.20**; single end **$5.00.**

Left-hand Dies take twice the die list.

ARMSTRONG SOLID RATCHET DIESTOCKS

For Conduit



A twist of the fingers securely locks the Armstrong "Kalorized" Die in place. Another twist easily unlocks the die for replacement. No screwdriver or pliers required.

Set No.	Price	Size—Inches	Dies Each	Bushings
C151BR	$26.00	½, ¾, 1	$4.40	$0.80

No. C151BR Solid Ratchet Diestock less Dies **$15.20.**

Left-hand Dies take twice the die price.

Letter C before a catalog number indicates conduit dies are specified. Conduit sets should be designated as such.

ARMSTRONG TOOLS



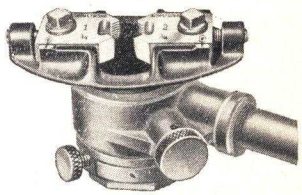
ARMSTRONG SOLID 3-WAY DIESTOCK

For Conduit

Set No.	Price	Size—Inches	Dies Each
C61B	$24.00	½, ¾, 1	$4.40

Left-hand Dies take twice the die price.

ARMSTRONG ADJUSTABLE RATCHET DIESTOCKS



Easy to handle in close quarters and hard-to-get-at positions. Just the thing for use in ditches and corners. A touch of the thumb easily throws the "Quick-as-a-Flash" Ratchet.

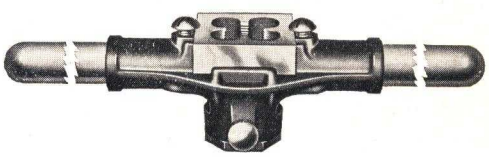
Set No.	Price	Size—Inches	Dies Per Pair	Bushings
2BR	$35.60	⅛, ¼, ⅜, ½, ¾, 1	$4.00	$0.80
2BR	31.60	¼, ⅜, ½, ¾, 1		
2BR	28.60	⅜, ½, ¾, 1		
2BR	25.60	½, ¾, 1		
2BR	22.80	¾, 1		
2BR	20.00	1		

No. 2BR Adjustable Ratchet Diestock less Dies **$16.00.**

Left-hand Dies take twice the die price.

ARMSTRONG SOLID STOCKS AND DIES

For Conduit



Set No.	Price	Size—Inches	Dies Each	Bushings
C0S	$11.20	½, ¾	$3.20	$0.60
C1S	18.80	½, ¾, 1	4.40	.80

Left-hand Dies take twice the die price.

ADJUSTABLE STOCKS AND DIES FOR TUBING

For Threading O.D. Tubing

Set No.	List Price	Size — Inches	Dies Per Pair	Bushings
2	$26.00	1⅛, 1¼, 1⅜, 1½	$5.00	$0.80
2	22.00	1¼, 1⅜, 1½	5.00	.80

Nos. 1 and 1½ Dies ¾ 20 RH List — **$4.00** per pair.

Additional Sizes — No. 2 Dies, ½, ⅝, ¾, ⅞, 1 inch List **$5.00.**

Left-hand Dies are special.

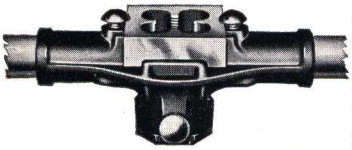
For Threading Thin Tubing — All 27 Threads

Set No.	List Price	Size — Inches	Dies Per Pair	Bushings
2	$28.00	1⅛, 1¼, 1⅜, 1½	$5.00	$0.80
2	23.00	1⅛, 1¼, 1½	5.00	.80
2	23.00	1¼, 1⅜, 1½	5.00	.80

Additional Sizes — No. 2 Dies, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, ¾, ⅞, 1 inch. List **$5.00** per pair. Left-hand Dies are special.

ARMSTRONG TOOLS

SOLID STOCKS AND DIES—FOR PIPE



Each set consists of an Armstrong solid stock with Armstrong "Kalorized" solid pipe dies and ring bushings for each threading size, with screws and handles. Each set packed in a substantial fiber box.

The Armstrong "Double Taper" Lead with full size leading threads in the throat distinguish these dies. These threads pull the dies onto the pipe without pushing. They start a clean, true thread, over the meanest burr.



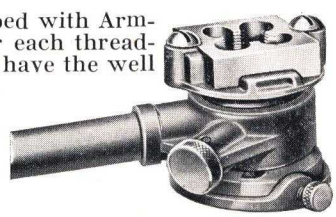
The pipe threading edge of each die has its individual rake angle. These dies shear, they do not scrape or hog in. They slide smoothly and evenly around the pipe. They hold their cutting edges.

Set No.	Threading Pipe Sizes—Inches	Wt. Lbs.	Price Each	Dies Each	Bushings
0S	⅛, ¼, ⅜, ½	5½	$17.30	$3.00	$0.60
1S	⅛, ¼, ⅜, ½, ¾, 1	12¼	25.90	3.50	.80
1S	¼, ⅜, ½, ¾, 1	11	22.70	3.50	.80
1S	⅜, ½, ¾, 1	9¾	19.40	3.50	.80
1S	½, ¾, 1	8¾	16.20	3.50	.80
1½	¼, ⅜, ½, ¾, 1, 1¼	21¾	33.50	4.30	1.20
1½	½, ¾, 1, 1¼	18	24.80	4.30	1.20
1½	¾, 1, 1¼	16¼	20.50	4.30	1.20
2	½, ¾, 1, 1¼, 1½, 2	31¾	47.50	5.40	1.50
2	1, 1¼, 1½, 2	25½	36.70	5.40	1.50
2	1¼, 1½, 2	22½	31.30	5.40	1.50

Size of dies: No. 0S, 2x2x⅝; No. 1S, 2½x2½x¾; No. 1½, 3x3x⅞; No. 2, 4x4x1 inches.

Left-hand Dies take twice the die list.

SOLID RATCHET DIESTOCKS—FOR PIPE



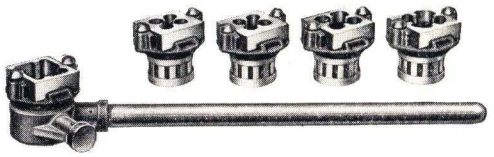
Each set is equipped with Armstrong solid dies for each threading size. These dies have the well known Armstrong "Double Taper" Lead with full size leading threads in the throat. It has an adjustable guide. Ring bushings are eliminated. These ratchet diestocks are sturdy and well built. Will withstand hard usage. Dies can be changed quickly.

Set No.	Threading Pipe Size—Inches	Wt. Lbs.	Price Each	Dies Each
151R	⅛, ¼, ⅜, ½, ¾, 1	12	$36.80	$3.50
151R	¼, ⅜, ½, ¾, 1	11¼	33.60	3.50
151R	⅜, ½, ¾, 1	10¼	30.40	3.50
151R	½, ¾, 1	9½	27.40	3.50
52R	½, ¾, 1, 1¼, 1½, 2	28	54.40	5.40
52R	1, 1¼, 1½, 2	23½	45.30	5.40
52R	1¼, 1½, 2	21	40.40	5.40

151R Solid Ratchet Diestock, less Dies, $18.00; 52R Solid Ratchet Diestock, less Dies, $32.40. Sizes of dies, 151R, 2½x2½x¾; 52R, 4x4x1 inches. Left-hand Dies take twice the die list.

ARMSTRONG TOOLS

DROPHEAD RATCHET DIESTOCKS—FOR PIPE



These are small and compact ratchet tools. They will cut threads in any nook or corner. A separate diehead is supplied for each threading size. No changing of bushings. A touch swings the ratchet pawl to cut either right or left hand threads.

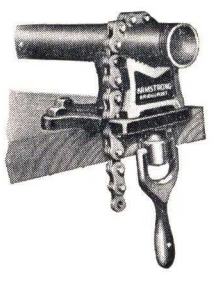
The dieheads are instantly released and replaced. Setting the pawl cam to center, or squeezing the pawls, instantly releases the head. Another threading size can be inserted just as readily.

Sets, Dies, Heads and Collars Sizes—Inches	No. 200R Wt. Lbs.	No. 200R Price Each	No. 201R Wt. Lbs.	No. 201R Price Each
⅛ to ¾	11	$39.20	.....	.....
¼ to ¾	9¾	33.50	.....	.....
⅜ to ¾	8½	27.80	.....	.....
⅜ to 1¼	8½	.....	16	$41.00
½ to 1¼	.....	.....	13¾	35.00
½ to 1	.....	.....	12	28.40
Ratchet Collar and Handle	2¾	5.35	4	7.40

Dieheads and Dies

⅛, ¼ ea.	1½	6.00	2	6.60
⅜, ½, ¾ ea.	1¾	6.00	2¼	6.60
1, 1¼ ea.	.....	.....	2½	6.60
Dieheads Only	1	3.60	1½	4.00
Dies Only ⅛ to ¾ ea.	¾	3.00	¾	3.50
Dies Only 1 and 1¼ ea.	.....	.....	1	3.50

Left-hand Dies take twice the die list.



ARMSTRONG CHAIN PIPE VISES

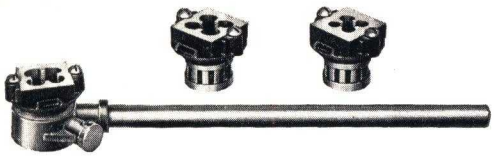
These chain pipe vises are unbreakable. They are compact, rapid acting and have a firm grip.

A turn of the handle locks the pipe securely.

Cat. No.	Holds Pipe Inches	Wt. Lbs.	Price Each	Jaws Per Pair	Chain With Screw	Screw Only
1	⅛ to 2½	4¼	$9.10	$3.90	$3.30	$1.10
2	¼ to 4	11¼	19.50	9.10	6.30	1.80
3	½ to 6	20½	35.10	15.60	11.70	3.30
4	½ to 8	30¾	46.80	23.40	15.60	3.30

ARMSTRONG TOOLS

DROPHEAD RATCHET DIESTOCKS FOR CONDUIT

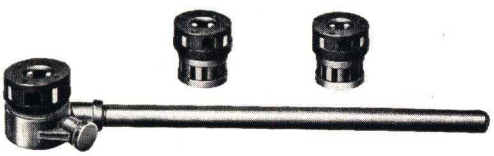


With Solid Dies

All the advantages of ARMSTRONG Solid Dies built into a quick-changing threader. Just lift out one Diehead and insert another when changing sizes, no Guides or Bushings are required.

Sets, Dies, Heads and Collars Sizes—Inches	No. C200R Price	No. C201R Price
Complete ⅜, ½ & ¾"	$28.20	.....
⅜ to 1"	.....	$36.70
Ratchet Collar and Handle	5.35	7.40
DIEHEADS AND DIES		
⅜, ½, ¾" each	6.80	7.60
1" each	.....	7.60
Diehead only, ⅛ to ¾" each	3.00	3.60
Diehead only, 1 to 1¼" each	4.80	.....
Dies only, ⅜, ½ & ¾" each	3.20	4.40
Dies only, 1" each	.....	4.40

Left-hand Dies take twice the die price.



With Segmental Dies

All the advantages of ARMSTRONG Segmental Dies built into a quick-changing threader. Just lift out one Diehead and insert another when changing sizes, no Guides or Bushings required. An ideal tool for close corners and those hard-to-get-at places.

Ratchet Pawls are reversed quickly. Easy exit for chips is provided by four large openings in each Diehead. A light-weight, heavy-duty tool.

Sets, Dies, Heads and Collars Sizes—Inches	No. C90R Price		No. C91R Price	
Complete: any one size	$11.40	.....	.....	.....
½ & ¾	17.50	.....	.....	.....
⅜ to ¾	23.60	.....	.....	.....
½ to 1	.....	.....	$26.60	.....
⅜ to 1	.....	.....	33.20	.....
½ to 1¼	.....	.....	33.20	.....
⅜ to 1¼	.....	.....	39.80	.....
Ratchet Collar and Handle	5.35	.....	7.40	.....
DIEHEADS AND DIES	Comp.	Dies Only	Comp.	Dies Only
For Conduit ⅜, ½, ¾	$6.20	$3.60	$6.60	$3.60
For Conduit 1, 1¼	.....	.....	6.80	4.00

Left-hand Dies take twice the die price.

ARMSTRONG 3-WAY DIESTOCKS

For Conduit



With Segmental Dies

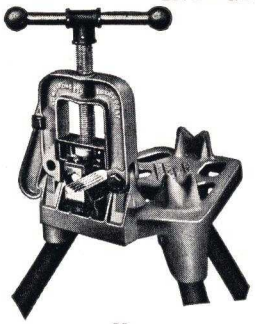
Set No.	Price	Sizes—Inches
C170	$19.20	⅜, ½, ¾
C171	20.80	½, ¾, 1

Extra Dies for Conduit: ⅜ to ¾", $3.60; 1 inch $4.00.

Diestock less Dies; No. C170 $10.00; No. C171, $11.20.

ARMSTRONG PORTABLE VISE STANDS

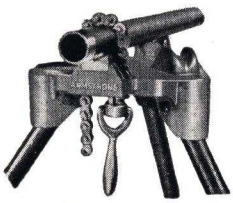
INTEGRAL VISTAND



No. 833BX with Broad Jaw Vise



No. 934C Heavy Duty VISTAND with Chain Vise



No. 833C with Chain Vise



No. 933 Heavy Duty VISTAND with Broad Jaw Vise

The ARMSTRONG Integral VISTAND is three units in one—Vise, 3-Legged Stand and Pipe Bender. Well balanced—easily carried in one hand. A chain lock secures the legs in folded position while being carried.

The Nos. 833BX and 833C VISTANDS have ¾-inch Pipe Benders and slots for tools. The platform provides ample space for oil can and loose fittings.

The Nos. 933 and 934C Heavy Duty VISTANDS have all the features of the Nos. 833BX and 833C respectively, plus 2 extra Benders, ½ and ¾-inch, for reverse bends, more slots for tools, a Ceiling Brace and a cast-in Dope Pot.

The Broad Jaw Vises have Frictionless Disk and double-pitch feed screw. No. 933 has the sure-gripping "Upset" lower jaw.

Cat. No.	Holds Pipe Inches	Wt. Lb.	List Price	Upper Jaw	Lower Jaw
833BX	⅛ to 2½	42	**$32.00**	**$1.40**	**$2.50**
833C	⅛ to 2	36	**32.00**	.....	**3.90**
933	⅛ to 2½	48	**36.00**	**1.40**	**2.50**
934C	⅛ to 4	42	**38.50**	.....	**9.10**

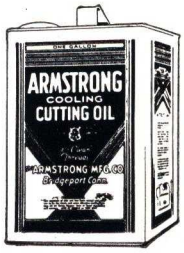
Slide for Nos. 833BX and 933, **$2.00**; Handle and Screw for Nos. 833BX and 933, **$3.60.**

For additional Vise Part Repairs: Nos. 833BX and 933, see No. 233 Vise; No. 833C, see No. 1 Chain Vise; No. 934C, see No. 2 Chain Vise.

ARMSTRONG COOLING CUTTING OIL

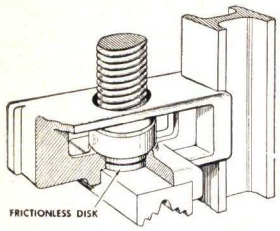
"It Cools As It Cuts"

This cutting oil gets around the conduit faster and stays there longer. Transparent, will not dirty the pipe or hands. Flows freely in cold temperatures. Absorbs heat and extends life of the Dies.



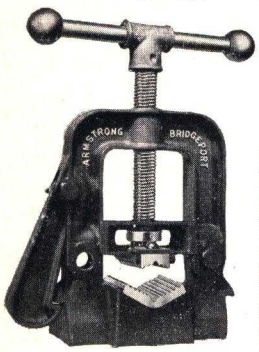
Pint Can	$0.70	Quart Can	$1.00
1 Gal. Can, with easy pouring spout			2.70
5 Gal. Can, with easy pouring spout			10.00
30 Gallon Drums	per gallon		1.80
50 Gallon Drums	per gallon		1.65

ARMSTRONG IMPROVED PIPE VISES



The ARMSTRONG Frictionless Disk is a smooth, round piece of hardened steel and it is inserted between the bottom of the screw and the top of the jaw of all ARMSTRONG Pipe Vises. This bearing eliminates all friction here and prevents binding, or "freezing," cutting to less than half the usual physical effort required for tightening upon pipe, enabling us to build a new Double Action thread pitch for the feed screw on the Nos. 232, 233, 234 and 222 Vises, as well as the No. 933 VISTAND. This new thread pitch causes the Upper Jaw to move up and down twice as fast as heretofore. The absence of friction at the greatest point of wear furthermore increases the life of the Vise indefinitely.

ARMSTRONG Broad Jaws provide maximum jaw bite, gripping the pipe along their entire length without marring. Even Brass Pipe is held tightly, though smoothly. New "Upset" Lower Jaws grip the pipe with maximum teeth and have ample spaces for pipe scale They do not "fill up." ARMSTRONG Vises are Speedy, Heavy-Duty Vises.



ARMSTRONG BROAD JAW VISES

With the Frictionless Disk

Standard Hinged, (or Bench Type), with full length Broad Jaws, one upper and one lower, that hold the pipe along its entire length with a tight, firm and sure grip that does not mar the pipe. No. 232, 233 and 234 have the new "Upset" jaws and Double-Action screw. Base is drilled for mounting on any standard portable vise stand, post or bench. Individually boxed.

No.	List Price	Holds Pipe Inches	Upper Jaw	Lower Jaw	Slide
231	**$ 9.20**	⅛ to 1¼	**$1.20**	**$2.00**	**$1.20**
232	**10.80**	⅛ to 2	**1.40**	**2.50**	**1.60**
233	**12.80**	⅛ to 2½	**1.40**	**2.50**	**2.00**
234	**19.20**	⅛ to 3½	**2.00**	**3.00**	**2.60**

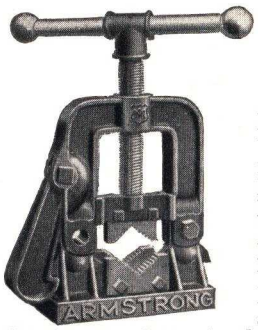
ARMSTRONG SIDE OPEN VISE

With the Frictionless Disk



A sturdy low-cost Vise of exceptional efficiency. May be mounted on the side of a truck or flat on a bench. Has two bolt holts for fastening. Individually boxed.

No. **222** ARMSTRONG Side Open Bench Pipe Vise, Capacity—⅛ to 2"..... Price **$7.20**
Upper Jaw, **$1.40** Lower Jaw, **$2.50**



ARMSTRONG 3-JAW VISES

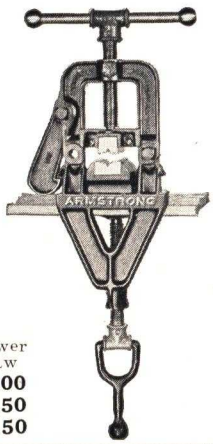
With the Frictionless Disk

Standard Hinged, (or Bench Type), with three tempered steel jaws. Built for extra heavy duty yet light in construction. As holds true on all other ARMSTRONG Vises, these vises have full I-Beam structure throughout and four full-length bearings sliding up and down on the outside of the frame. Base is drilled for mounting on any portable vise stand, vise post or bench. Individually boxed.

No.	List Price	Holds Pipe Inches	Jaws Three
135	**$26.70**	⅛ to 4½	**$9.00**
136	**60.00**	⅛ to 6	**9.00**

ARMSTRONG KIT (CLAMP TYPE) VISES

With the Frictionless Disk

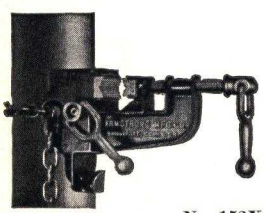


Always ready to clamp onto any plank, bench or post. No mounting tools are necessary, just turn the swivel handle to fasten or unfasten vise. Husky and serviceable, yet light enough to be included in any kit. Heavy-duty construction. Individually boxed.

No.	List Price	Holds Pipe Inches	Upper Jaw	Lower Jaw
241	**$12.00**	⅛ to 1½	**$1.20**	**$2.00**
142BX	**13.50**	⅛ to 2	**1.40**	**2.50**
143BX	**17.50**	⅛ to 2½	**1.40**	**2.50**

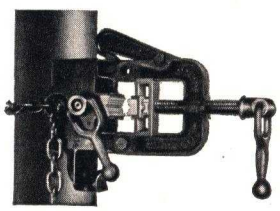
ARMSTRONG POST VISES

With the Frictionless Disk



No. 152X Side Open

ARMSTRONG Post Vises with Pipe Benders are for on-the-job work. Just wrap the sturdy chain around the lally column or post and hook the most convenient link into the slot. Turn the handle lock and the Post Vise is set straight—it almost becomes an integral part of the column. No wedges or other fasteners required. Bases are shaped to fit around posts from 4" to 10" in diameter, square posts from 2½" to 10" in diameter. Individually boxed.



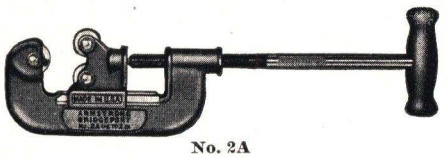
No. 163X Hinged

No. **152X** ARMSTRONG Side Open Post Vise, holds pipe ⅛" to 2"..... **$22.00**
Upper Jaw, **$1.40** Lower Jaw, **$2.50**

No. **163X** ARMSTRONG Hinged Post Vise, holds pipe ⅛" to 2½"..... **$25.60**
Upper Jaw, **$1.40** Lower Jaw, **$2.50**

ARMSTRONG TOOLS

HEAVY DUTY PIPE CUTTERS



No. 2A

Designed for use as a heavy-duty pipe cutter. May be used as a one or three wheel cutter by substituting cutter wheels for rollers. Scored "speed twirler" on feed screw permits fast adjustment.

No. 4 Cutter has an auxiliary handle, on the front end, making it a two-handed tool for easier operation on the larger sizes.

Cat. No.	Cuts Pipe	Wt. Lbs.	List Price	Wheels Each	Rolls Each	Pins Each	Slide Each
2A	⅛ to 2	6	$12.60	$1.20	$0.60	$0.40	$2.80
4A	2 to 4	20	42.00	1.80	.80	.50	8.80

ARMSTRONG PIPE CUTTERS



Barnes Type

Three Wheel Pipe Cutters

Cat. No.	Cuts Pipe	Wt. Lbs.	Price Each	Wheels Each
1B	⅛–1	3	$9.40	$0.90
2B	½–2	5	12.60	1.00
3B	1½–3	9	21.00	1.40
4B	2½–4	14	42.00	1.70
5B	4 –6	23	63.00	1.90

Roller Pipe Cutters

1S	⅛–1	3	7.70	.90
2S	1 –2	6	11.60	1.00
3S	2 –3	11	19.00	1.90
4S	2½–4	15	38.50	1.90
5S	4 –6	23	57.50	1.90

Extra Pins: Nos. 1B, 2B, 3B, **$1.80** per dozen; Nos. 4B, 5B, **$3.60** per dozen; 1S, 2S, **$2.40** per dozen; 3S, 4S, 5S, **$3.60** per dozen.



Saunders Type

DROP FORGED PIPE CUTTERS

Trimo Type



Cat. No.	Cuts Pipe	Wt. Lbs.	Price Each	Wheels Each	Rolls Each	Pins Doz.
1T	⅛ to 1¼	5¼	$ 9.40	$1.20	$0.60	$2.40
2T	⅛ to 2	6	12.60	1.20	.60	2.40
3T	1 to 3	8¾	21.00	1.80	.80	3.60
4T	2½ to 4	13¾	42.00	1.80	.80	3.60

Knife blade cutter wheels supplied for all types unless otherwise specified.

ARMSTRONG CO2 TUBE CUTTERS



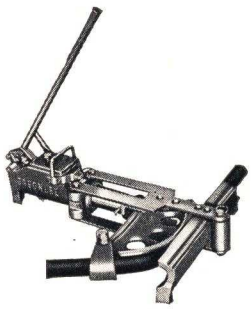
The No. C02 Tube Cutter is designed for use on Thin-Wall Electrical Conduit. Two-roller type, with knife blade wheel and bevel ground reamer. Cuts conduit, sizes ⅜ to 1¼ inches.

Cat. No.	Cuts Conduit	Wt. Lb.	List Price	Rolls Doz.	Roll Pins Doz.	Wheel Pins Doz.
C02	⅜ to 1¼	1¼	$6.00	$4.80	$3.60	$3.60

Reamer and Screw, **$1.00**; Handle Screw, **$1.20**; Swing Block and Pin, **$1.40**; Wheels, **$0.60**.

GREENLEE HYDRAULIC BENDERS

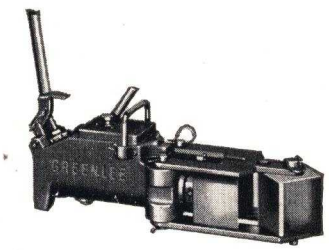
No. 770-R FOR SMALL PIPE



Powered with No. 770 unit, but equipped with attachments for bending small conduit and pipe in these sizes: ½, ¾, 1, 1¼, 2-inch. Especially adaptable to radiant heating installations. Makes, accurate smooth bends; no kinking, wrinkling or crushing. Full 90-degree bend with one forward stroke of ram. One man operated. Portable.

Cat. No.	Description	Wt. Lbs., Each	Price Each
770-R	Small Pipe Bender complete for ½ to 2-inch	360	$330.50
770-R	Attachments only ½ to 2-inch	270	220.50

Nos. 770 and 775-BB BUS-BAR BENDERS



For making accurate U-Bends in a wide range of sizes. No. 770 power unit for material up to 4 inches wide, ¾-inch thick. No. 775 power unit for material up to 5¾-inch width, 1-inch thickness.

Attachments fit Nos. 770 and 775 power units now in use.

Cat. No.	Description	Wt. Lbs., Each	Price Each
770-BB	Bus-Bar Bender Complete	155	$140.00
770-BB	Bus-Bar Bender Attachments only	55	30.00
775-BB	Bus-Bar Bender Complete	235	212.50
775-BB	Bus-Bar Bender Attachments only	80	75.00

GREENLEE HAND BENDERS



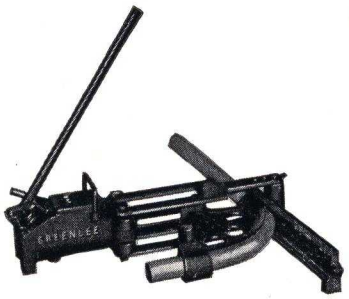
No. 761 for fast, easy bending of pipe or rigid conduit in ⅛, ¼, ⅜ and ½-inch nomal sizes.

No. 764 for thin-wall conduit (E.M.T.). Quickly bends conduit of ⅜, ½, and ¾-inch nominal sizes.

Cat. No.	Nominal Size	OD Dimens.	Center Radius	Price Each
761	⅛ pipe	.405	1 5/16	$12.00
	¼ pipe	.540	1¼	14.00
	⅜ pipe	.675	1 5/16	17.50
	½ pipe and rigid conduit	.840	2 3/16	21.50
764	⅜	.580	1 9/16	14.00
	½	.710	1⅞	17.50
	¾	.925	2½	22.50

GREENLEE HYDRAULIC BENDERS

No. 770-T THIN-WALL CONDUIT BENDER



Powered with the No. 770 unit, but with complete attachments for bending thin-wall electrical metallic tubing — without crushing. Quick acting — one forward stroke of ram makes a full 90-degree bend. Portable, easily set up.

Regular attachments furnished bend ¾, 1, 1¼, 1½ and 2-inch sizes of thin-wall conduit. Any No. 770 Bender now in use can be equipped with these easily applied attachments.

Cat. No.	Description	Wt. Lbs., Each	Price Each
770-T	Thin-Wall Conduit Bender complete for 1¼ to 2-inch	266	$230.00
770-T	Thin-Wall Conduit Bender complete for ¾ to 2-inch	350	275.00
770-T	Attachments only 1¼ to 2-inch	190	120.00
770-T	Attachments only ¾ to 2-inch	260	165.00

Nos. 770 and 775 HYDRAULIC BENDERS



No. 770 Bender with Standard Set of Shoes

With a Greenlee one man quickly gets the desired bend by pumping the handle for powerful hydraulic force. Bends are smooth, accurate — no kinking or damage to conduit or pipe.

No. 770 Hydraulic Bender illustrated above, with standard equipment, bends 1¼, 1½, 2, 2½ and 3-inch conduit and pipe. Extra attachments available for bending ½, ¾ and 1-inch sizes. Maximum piston pressure, 50,000 pounds.

No. 775 Hydraulic Bender is similar in design to the No. 770, but of larger size, heavier weight and powered to bend these larger sizes of conduit and pipe: 3, 3½, 4 and 4½-inch. Maximum piston pressure, 80,000 pounds. Can be furnished with extra shoes and supports for bending 8 sizes of pipe from 1¼ to 4½-inch.

Cat. No.	Description	Wt. Lbs., Each	Price Each
770	Complete for 1¼ to 3-inch	205	$170.00
775	Complete for 3 to 4½-inch	375	235.00

GREENLEE HYDRAULIC BENDERS

PARTS PRICE LIST

For Greenlee Hydraulic Conduit Benders No. 770 and No. 775

Part No.		Price Each
AA303	Injector Lever	$ 4.00
AA304	Release Stop Block	.75
AA305	Injector Shell	6.00
AA306	Injector Packing Nut	1.50
AA307	Injector Nut	2.00
AA308	Injector Plunger	2.00
AV877	Injector Lever Links, 2 required	.35
AV878	Plunger Pin	.20
AA311	Injector Lever Pin	.20
AA312	Lever Link Shaft	.25
AV919	Vent Plug complete	2.25
AA315	Injector Lever Handle	1.00
AA319	Injector Packing Washers, 2 required	.10
AA452	Reservoir Gasket	.10
AA464	Discharge Spring Screw	.35
AA469	Intake Spring	.10
AA470	Discharge Spring	.10
AA621	Discharge Spring Cup	.20
1109AA	Intake Spring Plunger	.20
1110AA	Intake Plug with 1112AA Washer	.35
AA317	Piston Adjusting Rod, complete with AA318 Piston Lever and AA321 Stud for No. 770	3.75
AA322	Safety Valve for No. 770	1.00
AA453	1¼" Shoe for No. 770	4.00
AA454	1½" Shoe for No. 770	5.00
AA455	2" Shoe for No. 770	6.00
AA456	2½" Shoe for No. 770	8.00
AA457	3" Shoe for No. 770 and 775	9.00
AA458	Support Castings for No. 770, 2 required	5.00
AA466	Connecting Bars for No. 770, 4 required	1.85
AA467	Upper Cross Bar	2.40
1274AA	Lower Cross Bar	2.40
AA540	Cylinder Head Pins for No. 770, 2 required	1.00
1272AA	Support Casting Pins for No. 700, 2 required	.80
AA558	Cup Retaining Screw for No. 770	.20
AA325	Oil Seal for No. 770	1.00
AA623	Neoprene Cup for No. 770	2.00
AA882	Cup Disk for No. 770	1.70
AA405	Piston Adjusting Rod complete with AA406 Piston Lever, and AA321 Stud for No. 775	4.35
AA407	Safety Valve for No. 775	1.00
AA997	Support Castings for No. 775, 2 required	7.00
AA567	3½" Shoe for No. 775	11.50
AA568	4" Shoe for No. 775	14.00
AA593	4½" Shoe for No. 775	15.00
AA588	Cylinder Head Pins for No. 775, 2 required	1.25
1269AA	Support Casting Pins for No. 775, 2 required	1.00
1244AA	Upper Cross Bar for No. 775	3.50
1275AA	Lower Cross Bar for No. 775	3.50
1243AA	Connecting Bars for No. 775, 4 required	3.00
AA587	Cup Retaining Screw for No. 775	.30
AA624	Leather Cup for No. 775	3.00
AA776	Cup Disk for No. 775	1.80
AA408	Oil Seal for No. 775	1.60

APPLETON BENDING TOOLS

For Electrical Metallic Tubing



BENDING TOOL

Especially designed for bending Electrical Metallic Tubing. Makes bends in exactly the right place and with very little effort.

Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Each	Price Schedule
14195	½	1	2½	**"TW"**
14196	¾	1	4⅛	**"TW"**
14197	1	1	7	**"TW"**

BENDING HICKEYS

This hickey is of special design for short bends, tight corners and for "stubbing up" in concrete work.



Cat. No.	Size In.	Description	Wt. Lbs. Each	Price Schedule
12195	½	(Use ¾" pipe handle)	1¾	**"TW"**
12196	¾	(Use 1" pipe handle)	2¾	**"TW"**
12197	1	(Use 1" pipe handle)	4	**"TW"**
12198	1¼	(Use 1¼" pipe handle)	10	**"TW"**
12199	1½	(Use 1¼" pipe handle)	12½	**"TW"**
12200	2	(Use 1½" pipe handle)	15	**"TW"**

REPUBLIC BENDING TOOLS

ELECTRUNITE "INCH-MARKED"* BENDER



Will enable the electrician to use the Electrunite Bending System with "Inch-Marked" Republic Electrunite E.M.T. to best advantage. It is a one-piece casting with no moving parts to get out of order. It predetermines stubs, back-to-back, offset and saddle bends to exact dimensions. It produces any standard type or radius bend accurately and easily. Simple instructions and markings are cast into the bender — cannot be lost.

Cat. No.	Size Inches	Std. Pkg.	Wt. Lb. Per 100
1472	½	10	250
1473	¾	10	420
1474	1	2	800

*Reg. U.S. Pat. Office.

E.M.T. HICKEY

Makes bends of any desired radius. To prevent kinking, the tube should be "inched" through, not more than ten degrees being pulled at a time. An excellent tool for stubbing-up in concrete work, and for making short or close bends.



Cat. No.	Size Inches	For Use with Pipe Handle	Std. Pkg.	Wt. Lb Each
2195	½	¾-inch	1	1¾
2196	¾	1 -inch	1	2¾
2197	1	1 -inch	1	4
2198	1¼	1¼-inch	1	10
2199	1½	1¼-inch	1	12½
2200	2	1½-inch	1	15

T & B LAKIN HICKEY



Made in three sizes. Shank is extra long assuring great strength. Shank has bushed hole designed to slip over end of conduit for making short bends at end of conduit. Bushed opening in shank fits snugly over end of conduit and prevents damaging threads while bend is being made.

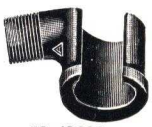
Cat. No.	Size Inch	Std. Pkg.	Price Each	Cat. No.	Size Inch	Std. Pkg.	Price Each
335	½	10	**$5.60**	**337**	1	2	**$11.25**
336*	¾	10	**7.50**	.....	..	..	.....

*Can also be used to bend ½-inch pipe.

APPLETON TIGER-GRIP HICKEYS AND COUPLINGS

Cadmium Finish

The jaws grip with a set of sharp steel teeth in the lower jaw and do not slip. The coupling attachment strengthens the hold on the handle and prevents breakage. One tool takes care of all sizes of conduit up to and including ¾-inch, and for 1-inch conduit the hickey and sleeve coupling have been combined in one casting.



No. 7290 Hickey



No. 7291 Hickey



No. 7295 Coupling

Tiger-Grip Hickey

Cat. No.	For Conduit Inches	Car-ton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Schedule
7290	½ & ¾	1	10	19	**"CF"**

Tiger-Grip with Coupling

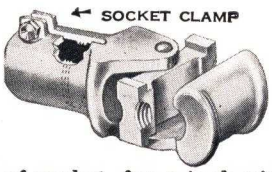
7291	1	1	10	55	**"CF"**

Sleeve Coupling

7295	½ & ¾	1	10	16	**"CF"**
7296	Jaws for Tiger-Grip Hickey				**"CF"**

LATROBE CONDUIT BENDERS

NO. 625 HAND CONDUIT BENDER



Combines two tools in one. By reversing the movable jaw it can be used for bending either ½ or ¾-inch conduit. It will not slip or kink the pipe. Deep socket, threaded internally at bottom of socket, for 1-inch pipe handle, eliminates couplings and insures full strength of handle. The socket clamp is a new feature to insure tight fit on undersize pipe handle and to prevent handle from unscrewing. Made of certified malleable iron, galvanized finish. Guaranteed not to break.

Cat. No.	Description	Price Each
625	Hand Conduit Bender.....	**$5.00**

KEYSTONE FISH WIRE



Made of flat, tempered spring steel in seven sizes.

Furnished in 50, 75, 100, 150 and 200 foot coils to a carton. Longer lengths may be ordered if desired.

.030-Inch Thick			.060-Inch Thick			.090-Inch Thick		
Cat. No.	Wdth. In.	Per C Feet	Cat. No.	Wdth. In.	Per C Feet	Cat. No.	Wdth. In.	Per C Feet
500	1/8	**$2.00**	**600**	1/8	**$2.50**	**700**	1/2	**$10.00**
501	3/16	**2.50**	**601**	3/16	**3.50**	**701**	5/8	**14.00**
502	1/4	**3.00**	**602**	1/4	**4.50**	**702**	3/4	**18.00**
.....	....	.....	**604**	3/8	**6.50**	.....	....	.....

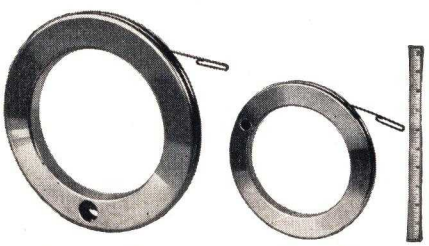
KLEIN FISH TAPE PULLER



A simple, husky come-along for fish-tape. To engage puller or fish-tape place the tape sideways in slot and give puller a slight forward motion while pushing tape deeper into the slot. (This slips tape under the ratchet wheel.) User now has positive grip on the tape. Slide forward on tape to position for new bite. Does not injure the tape, 3¾ inches long, can be carried in the pocket.

Cat. No.	Description	Wt. Lbs. Per Doz.	Price Each
1629	For Standard Fish Tapes..	2½	**$3.50**
1629-A	Modified for No. 12 Iron Wire	2½	**3.50**

IDEAL FISH TAPE REELS AND PULLERS



Standard Size **Junior Size**

Invaluable for building construction and industrial work. Reel serves as handle to give firm grip in pulling on fish tape.

Saves 50 per cent of the workman's time. Keeps tape fully protected, coiled ready to use.

Nine stock sizes of complete Fish Tape, Reels, and Pullers.

Cat. No.	Length and Size Tape		List Each
31-007	50 ft.....	1/8 x .045 (3/64")	**$3.07**
31-008	50 ft.....	1/8 x .060 (1/16")	**4.53**
31-009	100 ft.....	1/8 x .060 (1/16")	**7.73**
31-011	100 ft.....	1/4 x .060 (1/16")	**9.33**
31-014	100 ft.....	1/4 x .030 (1/32")	**7.73**
31-016	200 ft.....	1/8 x .060 (3/64")	**11.47**

IDEAL COIL-FLEX FISH TAPE



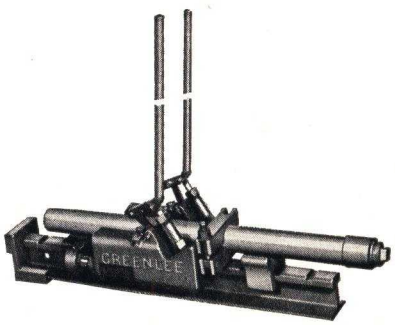
For all types of conduit — including aluminum. The Ideal Coil-Flex is extremely flexible; can be pushed or pulled with little effort through any and all bends allowed by the electrical code. Its round surface slides through any type of conduit far more easily than flat tape. Positively prevents cutting or damaging of aluminum. Ends are smooth and round to avoid catching or snagging.

The Coil-Flex consists of a 25-ft. length of steel spring 11/32 inch in diameter with a rustproof inner steel cable. A male fitting on one end and a female fitting on the other makes it easy to join together two or more lengths for jobs requiring a longer tape. Easy on the hands, it gives a safe, positive grip. Every Coil-Flex is factory inspected and tested at 400 pounds pull.

Price, No. **31-081** 25-ft. length.....each **$9.27**

GREENLEE HYDRAULIC PIPE PUSHERS

MODEL No. 790 PIPE PUSHER



Pipe for gas, water supply, sewer and other purposes, conduit for electricity and telephone cable is easily installed underground, without expensive trenching, with a Greenlee hydraulic pipe pusher.

For pipe ¾ to 4-inch size inclusive. Six operating speeds with pushing pressures ranging from 6500 to 40,000 pounds. Power unit travels on notched steel base, supplied in 5½, 6½, 7½ and 8½ ft. lengths, permitting pushes of from 4 to 7 feet between changes of pipe clamp. Each base equipped with one backing plate and two pipe supports. Weight, power unit only, 160 pounds.

Price, No. **790** Power Unit only.....each **$185.00**

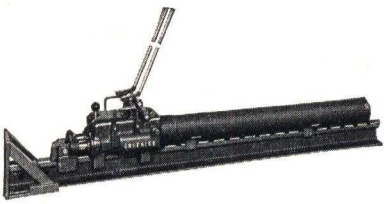
Steel Bases, complete with pipe support and backing plate:

Base Ft.	Push Ft.	Wt. Lb.	Price Each	Base Ft.	Push Ft.	Wt. Lb.	Price Each
5½	4	145	**$30.00**	7½	6	185	**$40.00**
6½	5	165	**35.00**	8½	7	205	**45.00**

Quick-Acting Clamps for following pipe sizes: ¾", 1", 1¼" each **$10.00**; 1½" **$10.75**; 2" **$11.50**; 2½" **$12.75**; 3" **$15.00**; 3½" **$17.50**; 4" **$22.50.**

GREENLEE HYDRAULIC PIPE PUSHERS

MODEL No. 795 PIPE PUSHER



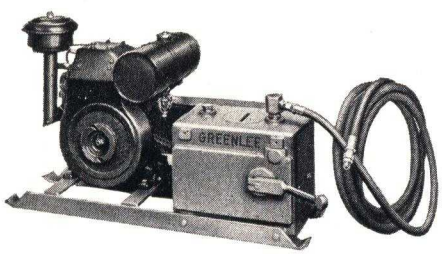
This 75-ton pusher handles large drainage ducts, concrete sewer pipe and pipe beyond 4-inch. Six operating speeds develop piston pressures from 25,000 to 150,000 pounds. Two machines can be used in pushing very large drainage ducts.

Notched steel base is furnished in lengths to suit pipe or duct to be handled—should be three feet longer than section of pipe to be pushed. Pipe is pushed from the end, without using pipe clamps.

Weights—Power unit only, 280 lbs.; base and equipment, per foot, 30 lbs.

Price, No. **795** Power Unit only.....each **$325.00**
Base and equipment.....per foot **10.00**

MODEL No. 797 DOUBLE ACTION POWER PUMP



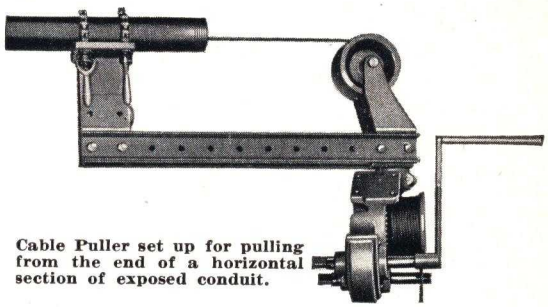
Available for attachment to either Greenlee Nos. 790 or 795 Hydraulic Pipe Pushers. Reciprocating pump driven by 3 h.p. gasoline engine, forces oil through 15-foot high pressure hose to the hydraulic power unit, forcing unit forward on the base. Attached to either 790 or 795 pusher, toughest jobs can be done quickly by one man. Available with or without motor.

Greenlee No. 797 Power Pump with 3 H.P. gasoline motor, pulleys, belt guard, but without hose..... **$442.00**
Greenlee No. 797 Power Pump equipped as above but without gasoline motor.... **328.00**
Greenlee No. 797 Power Pump with 2 V-belts, pulleys and guard for electric motor drive but without motor and control **334.00**
15 Feet of 2-wire, high pressure hose with fittings for use with Pipe Pushers **19.00**
6 Feet of 2-wire, high pressure hose with fittings for use with Pipe Benders..... **8.70**

Power Pump can also be used with Greenlee Nos. 770, 770-T, 770-R and 775 Benders.

GREENLEE CABLE PULLER

No. 765 CABLE PULLER AND FLEXIBLE ELBOW ATTACHMENT



Cable Puller set up for pulling from the end of a horizontal section of exposed conduit.

Cable pulling has always presented difficulties to the electrician, due to the cumbersome, heavy equipment used and to the trouble of properly anchoring it. It provides maximum power, ease of operation, portability, and convenient, positive anchorage.

The machine will exert a maximum pull of 7500 pounds, and it has two speeds, through a direct gear and through a back gear. A shear pin is provided in the back-gear shaft to prevent damage under excessive pull, and a dog on the back gear prevents unwinding of the cable in event of the pin shearing. Two cranks are supplied, but if preferred, ratchet wrenches can be used. A portable electric power unit can also be used for driving the machine. The puller is readily portable, since it has a net weight of only 170 pounds.

In exposed work the clamping is done directly onto the conduit through which the cable is to be pulled. The clamping device consists of a bracket on the frame and two lengths of pipe wrench chain. While regularly rated for conduit from 2 to 4-inch the clamp will accommodate 5-inch conduit.



Flexible Elbow Attachment

For pulling cable into concealed conduit, where the regular clamping device cannot be used, an attachment can be furnished, which makes it convenient to use the puller without its frame and provides for placing it at any distance from the end of the conduit.

This attachment consists of a flexible elbow, a 4-inch master sleeve, bushings for 2, 2½, 3, and 3½-inch conduit, two unions for the small bushings to permit using them in close quarters, and a 4-inch to 2-inch reducer.

Cable is not furnished with the machine, and it is recommended that a ⅜-inch 6-19 strand, having a breaking strength of 11,000 pounds or more, should be used.

Cat. No.	Description	Shpg. Wt. Lbs.	Price Each
765	Cable Puller with 2 cranks, but without cable.....	225	**$160.00**
.....	Flexible Elbow Attachment..	86	**40.00**

KELLEMS CABLE GRIPS

PULLING GRIPS



Designed for attaching pulling line to end of cable. Has Kellems patented protection over the shoulder, making leather collar unnecessary, also endless weave which enables it to fit smoothly over the cable, and eliminates ragged, twisted ends.

For Cable Diam., In.	24" Long Cat. No.	24" Long Price Each	36" Long Cat. No.	36" Long Price Each	48" Long Cat. No.	48" Long Price Each
¾ to 1	E100	$5.20	.....	.....	.....	.....
1 to 1½	E101	5.80	E107	$7.70	E113	$9.60
1½ to 2	E102	6.45	E108	8.25	E114	10.25
2 to 2½	E103	7.10	E109	9.00	E115	10.85
2½ to 3	E104	7.70	E110	9.60	E116	11.50
3 to 3½	E105	8.25	E111	10.25	E117	12.15
3½ to 4	E106	9.00	E112	10.85	E118	12.75

SINGLE OR DOUBLE EYE SLACK GRIPS



The closed cable grip is designed for pulling slack or recovering old cable.

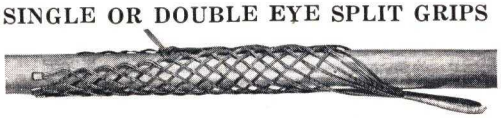
Double Weave—Single or Double Eye

For Cable Diam., In.	18 Inches Long Cat. No.	18 Inches Long Price Each	24 Inches Long Cat. No.	24 Inches Long Price Each
¾ to 1	D0-N0	$4.45	.....	.....
1 to 1½	D1-N1	4.75	D7 -N7	$6.00
1½ to 2	D2-N2	5.40	D8 -N8	6.65
2 to 2½	D3-N3	6.00	D9 -N9	7.25
2½ to 3	D4-N4	6.65	D10-N10	7.95
3 to 3½	D5-N5	7.25	D11-N11	8.55
3½ to 4	D6-N6	7.95	D12-N12	9.25

Single Weave—Single or Double Eye

¾ to 1	.....	3.50	.....	.....
1 to 1½	13-N13	3.80	19-N19	5.05
1½ to 2	14-N14	4.15	20-N20	5.40
2 to 2½	15-N15	4.45	21-N21	5.70
2½ to 3	16-N16	4.75	22-N22	6.00
3 to 3½	17-N17	5.05	23-N23	6.30
3½ to 4	18-N18	5.40	24-N24	6.65

SINGLE OR DOUBLE EYE SPLIT GRIPS



Designed for use on a working cable. It can be attached to any point on a cable without cutting it.

Double Weave—Single or Double Eye

For Cable Diam., In.	18 Inches Long Cat. No.	18 Inches Long Price Each	24 Inches Long Cat. No.	24 Inches Long Price Each
¾ to 1	.....	$5.05	.....	.....
1 to 1½	D25-N25	5.15	D31-N31	$6.40
1½ to 2	D26-N26	5.90	D32-N32	7.20
2 to 2½	D27-N27	6.65	D33-N33	7.90
2½ to 3	D28-N28	7.45	D34-N34	8.75
3 to 3½	D29-N29	8.20	D35-N35	9.45
3½ to 4	D30-N30	8.95	D36-N36	10.25

Single Weave—Single or Double Eye

¾ to 1	.....	4.15	.....	.....
1 to 1½	37-N37	4.55	43-N43	5.80
1½ to 2	38-N38	4.85	44-N44	6.10
2 to 2½	39-N39	5.15	45-N45	6.40
2½ to 3	40-N40	5.50	46-N46	6.75
3 to 3½	41-N41	5.80	47-N47	7.05
3½ to 4	42-N42	6.10	48-N48	7.35

The new design, single eye closed and split cable grips is illustrated. This design is far superior to the old type double eye as the eye is placed flat against the cable thereby overcoming any tendency to mar the lead sheath.

Double eye grips are still supplied in the closed and split types and the price is the same as for the new type single eye. If double eye grips are desired so state in the order.

KELLEMS CABLE GRIPS

OLD TYPE PULLING GRIPS—STEEL



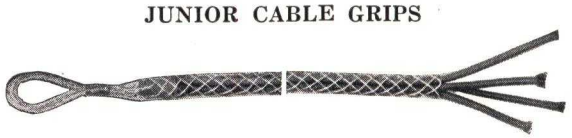
Double Weave

For Cable Diam., In.	24" Long Cat. No.	24" Long Price Each	36" Long Cat. No.	36" Long Price Each	48" Long Cat. No.	48" Long Price Each
¾ to 1	D200	$3.50	.....	.....	.....	.....
1 to 1½	D201	3.80	D207	$5.05	D213	$6.30
1½ to 2	D202	4.15	D208	5.40	D214	6.65
2 to 2½	D203	4.45	D209	5.70	D215	6.95
2½ to 3	D204	4.75	D210	6.00	D216	7.25
3 to 3½	D205	5.05	D211	6.30	D217	7.60
3½ to 4	D206	5.40	D212	6.65	D218	7.95

Single Weave

¾ to 1	300	3.00	.....	.....	.....	.....
1 to 1½	301	3.15	307	4.45	313	5.70
1½ to 2	302	3.50	308	4.75	314	6.00
2 to 2½	303	3.80	309	5.05	315	6.30
2½ to 3	304	4.15	310	5.40	316	6.65
3 to 3½	305	4.45	311	5.70	317	6.95
3½ to 4	306	4.75	312	6.00	318	7.25

JUNIOR CABLE GRIPS



A recent development is a small cable grip, Kellems Junior for pulling wire through branch circuit conduits. This grip also pulls twisted telephone wire.

Cat. No.	Size Inches	For Wire Size	Price Each
J0	¼x 6	One No. 14, 12, 10 or 8	$2.10
J1	⅜x 7	2 to 5 No. 14 or equivalent	2.30
J2	½x 8	4 to 7 No. 14 or equivalent	2.40
J3	⅝x 9	4 to 5 No. 8 or equivalent	2.90
J4	¾x10	3 No. 6 or 3 No. 4 or equivalent	3.15
J5	⅞x12	3 No. 2 or equivalent	3.45
J6	1 x13	3 No. 1/0 or equivalent	3.75

BRONZE SERVICE CABLE GRIP

For Service Drop Cable



Service Cable Grip — Everdur Screw Hook

Cat. No.	For Cable Diam., In.	Price Each	Cat. No.	For Cable Diam., In.	Price Each
EB0	.23 to .32	$0.45	EB4	.70 to .80	$0.52
EB1	.32 to .40	.46	EB5	.80 to .92	.56
EB2	.40 to .49	.47	EB6	.92 to 1.00	.62
EB3	.49 to .70	.50	EB7	1.00 to 1.15	.64

Hooks: Galvanized, $0.15 each; bronze, $0.25 each.

RISER CABLE GRIPS

For Cable Diam., In.	Closed Grips Cat. No.	Closed Grips Price Each	Split Grips Cat. No.	Split Grips Price Each
¾ to 1	R075	$2.75	RS075	$3.10
1 to 1¼	R100	3.10	RS100	3.45
1¼ to 1½	R125	3.45	RS125	3.80
1½ to 2	R150	3.80	RS150	4.15
2 to 2½	R200	4.15	RS200	4.80
2½ to 3	R250	4.80	RS250	5.20
3 to 3½	R300	5.20	RS300	5.50
3½ to 4	R350	5.50	RS350	5.90

In ordering give outside diameter of cable. The above sizes are for exact fitting but a slightly wider variation of cable diameters can be handled by each grip.

LIGHTING FIXTURES

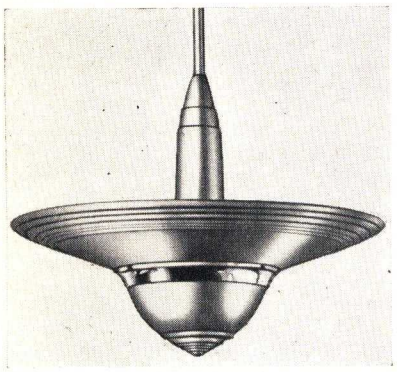


Our lighting fixture display rooms are maintained for the use of our customers.

The attractive display in these rooms will show our large selection which cannot be included in this catalog.

CURTIS LUMINAIRES

"WINNER"—No. 5090



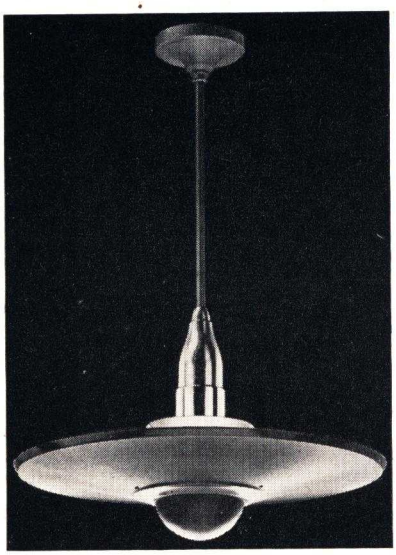
Efficiency marks this tailored design as outstanding. The "Winner" bowl contains a Silver Mirror "X-Ray" Reflector which provides the even distribution and high light-output constituting the best quality indirect illumination. The straight-forward appearance of "Winner" harmonizes with modern office and school interiors.

Material: Aluminum. Finish: Exterior Silver Gray. Interior Flat White. Reflecting surface: Silver Mirror "X-Ray" Reflector. Bowl diameter 19½"; depth 7"; suspension from top of bowl to ceiling 36".

Price, No. **5090**, 500 or 300 watt Mogul Socket .....each **$20.00**

"DISCUS"—Nos. 1020 and 1024

No. **1020**—A simple and graceful indirect lighting luminaire for use with the 500- or 300-watt Silvered Bowl lamp. If 300-watt lamp is to be used order also one Cat. No. 6055 Adapter ring. The unusual shallowness of the bowl assures high light output. A single conical lamp neck shield forms part of the fixture, and completely conceals the lamp neck from view under normal installation conditions. A second shield will be provided for low ceiling installations at an additional charge.



Material: Alzak Aluminum.

Reflecting surface: Silvered Bowl lamp.

Finish: Satin Aluminum. Dimensions: Bowl diameter 20"; depth 2"; suspension from top edge of bowl to ceiling 36 inches.

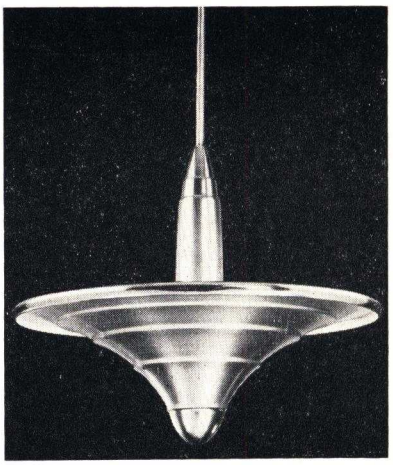
Price, No. **1020**.....each **$16.25**

No. **1024**—For 750- or 1000-watt Silvered Bowl lamps. Bowl diameter 26"; depth 3"; suspension from top edge of bowl to ceiling 48 inches.

Price, No. **1024**.....each **$22.85**

CURTIS LUMINAIRES

"EDGE-RAY"—Nos. 1250 and 1270



Indirect lighting pendants made softly luminous by a unique patented feature, the edge-ring which reflects a portion of the light from the lamp to the outer surface of the bowl. Widely used in many of the better class stores and restaurants, the simplicity and beauty of this fine design have found suitable application in many types of interiors. The Alzak Aluminum reflecting surface guarantees permanent efficiency.

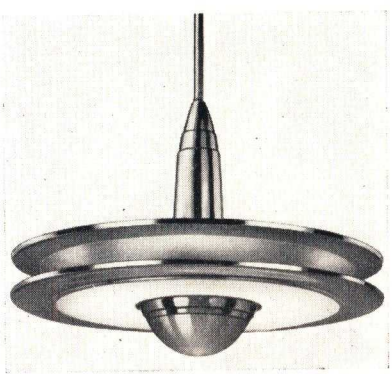
Material: Alzak Aluminum. Finish: Lustrous Aluminum with polished highlights. Installation: Simplified socket and bowl assembly for ease of installation.

A self-aligning fitting in the canopy permits the luminaire to hang plumb even though the outlet box or stud may be out of line. Relamping and cleaning is easily accomplished.

Cat. No.	Ceiling to Top of Bowl	Socket	Lamp Watts	Bowl Diam.	Bowl Depth	Price Each
1250	36"	Mogul	500 or 300	21½"	8"	**$26.00**
1270	48"	Mogul	750 or 1000	27½"	11"	**40.40**

"LARRA"—No. 5060

Luminous indirect lighting pendant with Alzak reflecting surface. This unit is well adapted to use in stores, offices and public buildings and other interiors where refined, artistic lines and indirect lighting are required.



Material: Aluminum and opal glass. Reflecting surface is Alzak Aluminum. Finish: Alzak Aluminum and glass. Reflected light provides a luminous effect on exterior of the bowl. Installation: Has simplified socket and bowl assembly for ease of installation.

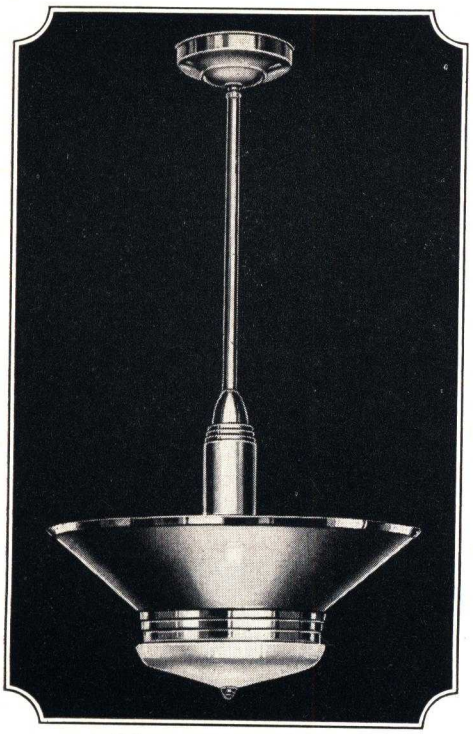
A self-aligning fitting in the canopy permits the luminaire to hang plumb even though the outlet box or stud may be out of line. Relamping and cleaning is easily accomplished.

Cat. No.	Ceiling to Top of Bowl	Socket	Lamp Watts	Bowl Diam.	Bowl Depth	Price Each
5060	36"	Mogul	500 or 300	20"	5½"	**$43.85**

GUTH INDIRECT LIGHTING LUMINAIRES

Eliminate Glare, Shadows, and Undesirable Reflections

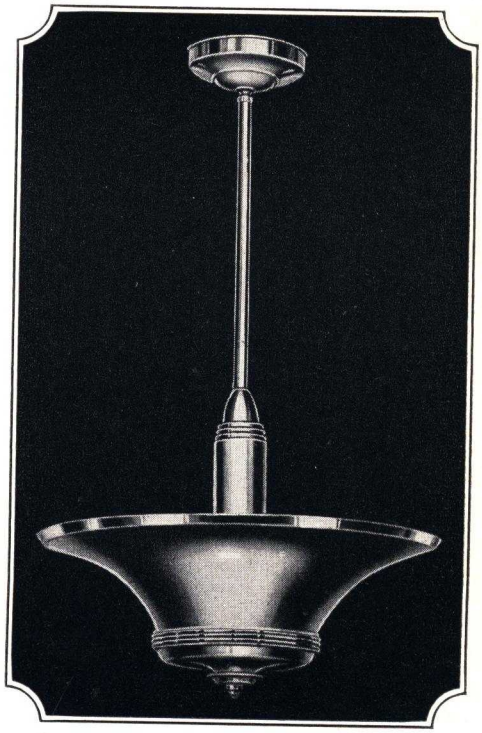
Best Office Lighting Obtainable



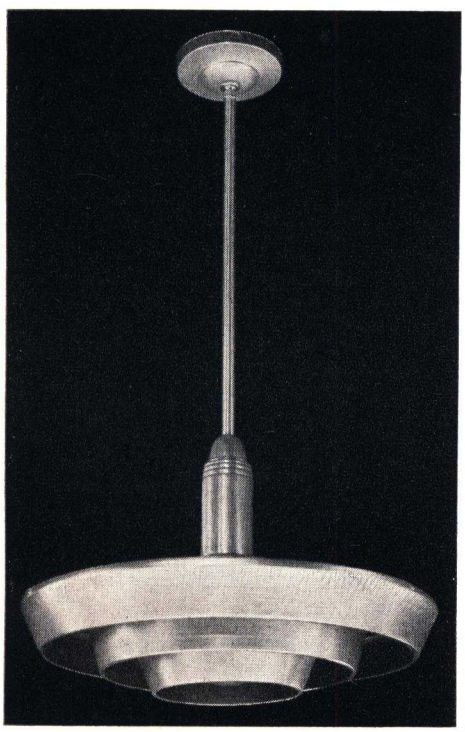
SUPER ILLUMINATOR
Alzak Aluminum

Equipped with "ALZAK" Aluminum Reflectors

The remarkable efficiency of Guth Luminaires is due to their scientifically correct design.



YORK INDIRECT
Alzak Aluminum



GUTH SEELUX
Alzak Aluminum

SUPER-ILLUMINATOR

Reflector genuine Alzak aluminum (18-gauge). Stem, and socket-cover satin Alzak with swivel-hanger. Satin crystal luminous glass bottom bowl.

No.	Wattage	Diam.	Length
R4355	150–200	14″	30″
R4357	300–500	18″	36″
R4359	750–1500	22″	42″

YORK INDIRECT

Reflector genuine Alzak aluminum (18-gauge). Stem and socket-cover satin Alzak. With swivel hanger. Canopy is polished and satin Aluminum.

No.	Wattage	Diam.	Length
R5441	150–200	14″	30″
R5442	300–500	18″	36″
R5443	750–1500	22″	42″
R5444	750–1500	30″	42″

SEELUX

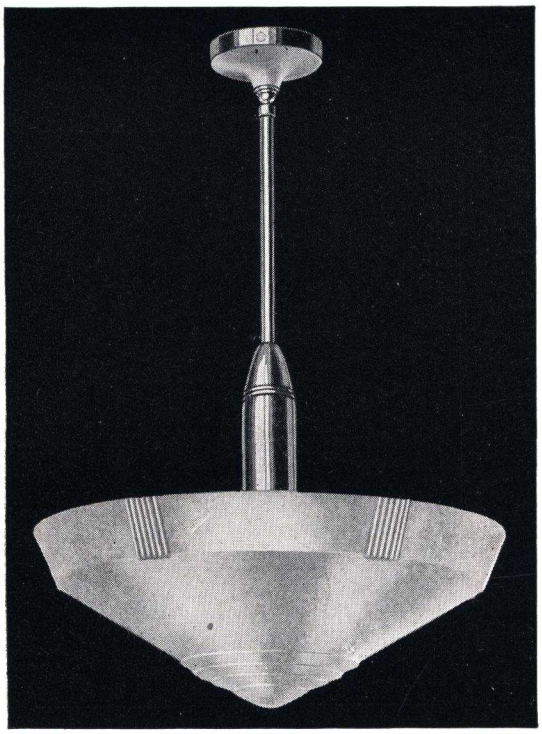
Guth SEELUX is an improved indirect for silver bowl lamps. It is furnished in spun aluminum finished Alzak and is available in three sizes for close ceiling or suspension mountings.

No.	Type	Wattage	Diam.	Drop
R7010	Close Ceiling	150–200	16″	
R7011	Suspended	150–200	16″	30″
R7012	Close Ceiling	300–500	19″	
R7013	Suspended	300–500	19″	36″
R7014	Close Ceiling	750–1000	23″	
R7015	Suspended	750–1000	23″	42″

ART METAL LUMINOUS PLASTIC UNITS

SEMI-INDIRECT AND DIRECT-INDIRECT

THE PLASTICLITE



Finish: Silvertint—Polished Chrome Stem and Swivel.
Satin Aluminum.

Semi-Indirect Plastic Bowl

Cat. No.	Dia. In.	Susp. Inches	O.A. Lgth. Inches	Watts	Price Each
*1860	18⅝	30	37	300–500	$16.40
2409	15¾	30	36	200	12.00

*Furnished with non-absorbing light baffle.



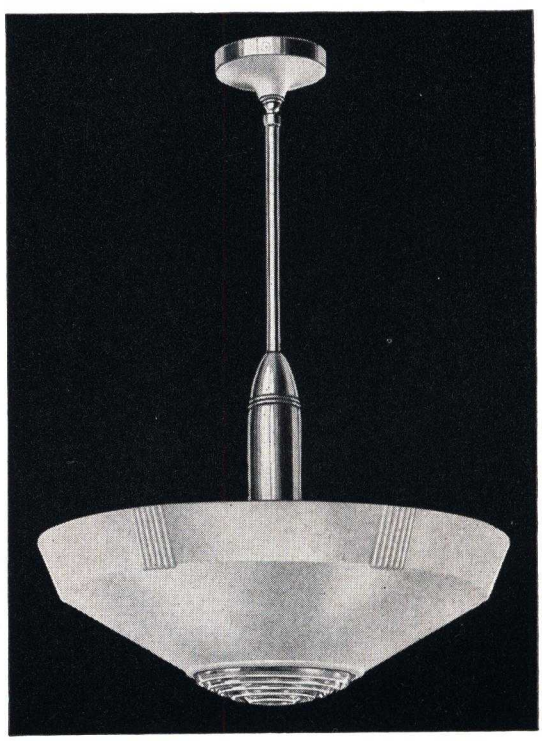
Finish: Silvertint.

Cat. No.	Dia. In.	Susp. Inches	O.A. Lgth. Inches	Watts	Price Each
3212	15¾	....	13½	200	$8.40

Art Metal Plastic units are molded of PLASKON powder by the General Electric Company. This plastic powder has been selected as the most efficient of all available molding powders for light transmission and color quality. Providing: **Permanence** of color — **Safety** non-shatterable — 15% lighter in weight than other translucent bowls — **Maintenance** — minimized — can be cleaned with a damp cloth.

The combination design and the material in Art Metal plastic units results in a wide distribution of light in the indirect component. The over-all efficiency of the luminaire is 83%. The plastic has a 30% transmission factor and a reflection factor of 55%. The surface brightness ranges from .8 to 1.98 candlepower per square inch with 300-watt I.F. lamp.

THE LENSPLASTIC



Finish: Silvertint—Polished Chrome Stem with Holophane Controlens.

Direct-Indirect Plastic Bowl with Holophane Controlens

Cat. No.	Dia. In.	Susp. Inches	O.A. Lgth. Inches	Watts	Price Each
1943	18⅝	30	36	300–500	$22.00

Furnished with non-absorbing light baffle.

ART METAL ENCLOSING GLASS UNITS

ALUMINUM HOLDERS AND CANOPIES

These units have hangers specifically designed to cooperate with the glassware to produce maximum lighting efficiency. The fine texture and contour of the glassware assures uniform distribution and diffusion of light.

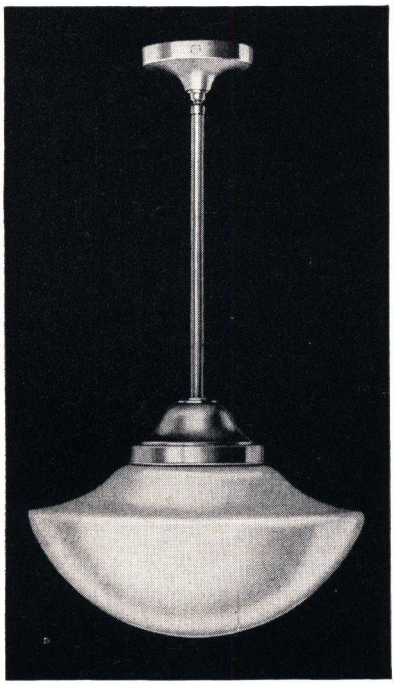
Specifications: Holders and canopies are made of 20 gauge aluminum. Holders have two ½-inch 22 gauge brass stationary arms and two set screws. Reflecting surface etched aluminum. Stem pendants have ⅝-inch polished chrome tube.

Finish: Polished Chromtint.



Unit No.	Hanger Only No.	Socket	Glass Size Inches Fitter	Dia.	Depth	Length Fix. Only	Watts
3242	740	Med.	4	10	7	4½	100
3243	760	Med.	6	12	7½	4¾	150
3244	760	Med.	6	14	7¾	4¾	200
3245	760M	Mogul	6	16	9	4¾	300

Canopy 6 inches diameter.



Unit No.	Hanger Only No.	Socket	Glass Size Inches Fitter	Dia.	Depth	Length Fix. Only	Watts
3252	643	Med.	4	10	7	24	100
3253	663	Med.	6	12	7½	24	150
3254	663	Med.	6	14	7¾	24	200
3255	663M	Mogul	6	16	9	24	300
3256	663M	Mogul	6	18	10⅜	24	500

Canopy 6 inches diameter.



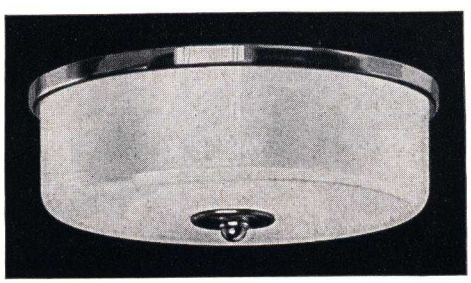
Canopy 6 inches diameter.

Unit No.	Hanger Only No.	Socket	Glass Size Inches Fitter	Dia.	Depth	Length Fix. Only	Watts
3247	840	Med.	4	10	7	2½	100
3248	860	Med.	6	12	7½	3	150
3249	860	Mogul	6	14	7¾	3	200

Canopy 6 inches fitter 9⅜ inches diameter — 4-inch fitter 7½ inches diameter.

GENERAL AREA LIGHTING

One-Piece Shallow Band with White Opal Glass



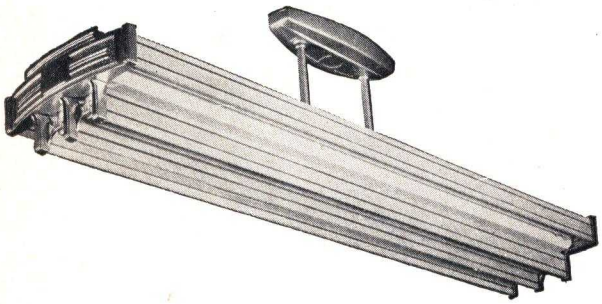
Made of Aluminum.

Finish: Polished Chromtint.

Cat. No.	Size Glass Inches	Band Dia.	Depth Inches	No. of Sockets	Watts	Price
1738	8x2½	8½	3½	2	2- 40W	**$5.70**
1739	10x3	10½	4¼	2	2- 75W	**7.50**
1808	12x4	12½	4¾	2	2-100W	**10.90**
1809	14x4½	14½	5	3	3- 75W	**14.50**
1810	16x4¾	16½	5¼	3	3- 75W	**30.00**

PHILITE FLUORESCENT LIGHTING FIXTURES

No. 7180 FLEETWOOD



A highly styled quality unit . . . meets the need where swank is required for the better type installation. A production number at a most reasonable cost. Body of Duralite crack-proof, 300 degrees baked white enamel. Artistic, ornamental ends. Stems, canopy and ends finished in spray Bronze or Cadmium with PHILITE linocarved fins.

Cat. No.	Power	Length in In.	Price Each Suspended	Price Each Surface
7180-424	LPF	27½	**$31.11**	**$30.67**
7180-424	HPF	27½	**38.89**	**38.44**
7180-448	HPF	51½	**50.00**	**49.56**

No. 1111 GLADSTONE

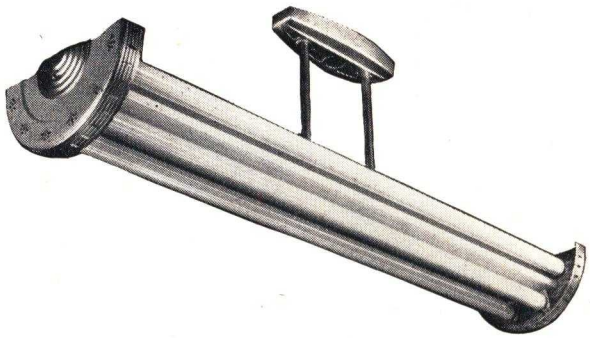


A new idea and a good one, in directing Fluorescent rays upward as well as down. This PHILITE fixture, when properly spaced, eliminates unsightly, spotty ceiling shadows. Body of Duralite crack-proof, 300 degrees baked white enamel. Cast ends in Bronze or Cadmium finish.

Cat. No.	Power	Length in In.	Price Each Suspended	Price Each Surface
1111-424	LPF	26½	**$24.44**	**$24.00**
1111-424	HPF	26½	**32.22**	**31.78**
1111-448	HPF	50½	**37.22**	**36.78**

PHILITE FLUORESCENT LIGHTING FIXTURES

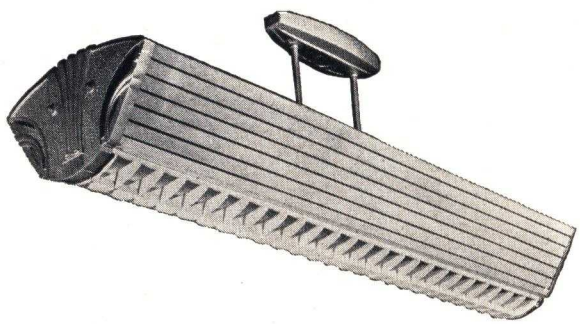
No. 4444 WINSTON



To meet an insistent demand for a refreshing new design, the ornamental steel ends of this fixture will dovetail into many decorative schemes because of the two-tone harmonizing effects. Ends obtainable in Cream and Gold, Cream and Silver, Silver and Gold . . . reverse colors optional or single tone if desired. The body of this PHILITE fixture is of Duralite crackproof, 300 degrees baked white enamel.

Cat. No.	Power	Length in In.	Price Each Suspended	Price Each Surface
4444-424	LPF	25	**$22.11**	**$21.67**
4444-424	HPF	25	**29.89**	**29.44**
4444-248	HPF	50	**22.78**	**22.33**
4444-348	L&HP	50	**31.00**	**30.56**
4444-348	HPF	50	**34.33**	**33.89**
4444-448	HPF	50	**35.44**	**35.00**

No. 7786 LOUVRON PHILITE



Popular combination glass and metal louvre fixture tastefully designed and expertly made by PHILITE craftsmen. Body: Duralite crackproof, 300 degrees baked white enamel. Cast ends: Cadmium or Bronze. For Suspension mounting only.

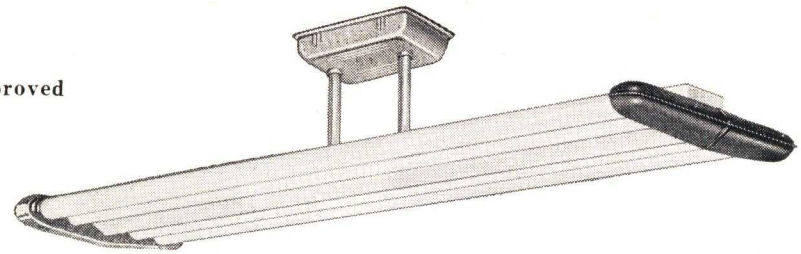
Suspended Type

Cat. No.	Power	Length in In.	Price Each
7786-424	LPF	25½	**$37.78**
7786-424	HPF	25½	**45.56**
7786-348	L&HP	49½	**48.78**
7786-348	HPF	49½	**52.11**
7786-448	HPF	49½	**53.22**

ELECTRO FLUORESCENT COMMERCIAL FIXTURES

STREAMLINED—4 LIGHT 40-WATT LUMINAIRE
BASIC UNIT SYSTEM

U.L & E.T.L. Approved



No. 1044P Pendant (1040 Basic Unit and Kit 4)

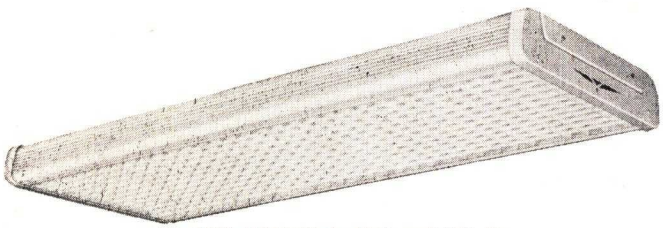
Correctly engineered for maximum in electrical performance. Finest operating equipment available. Constructed of top grade materials and processed by the most efficient production methods. Highest illuminating efficiency, utilizing the greatest possible percentage lumen output of the bare lamps.

Permanent fixed dimensions between two lamp holders. Turning, loosening or breaking of lampholders eliminated by the use of lifetime butt-on socket construction.

Lamps inserted from top — eliminating possibility of loosening or dropping out.

Unshielded—Plastic Ends

Model No.	Lamps and Wattage	Description	Less Lamps
1044	4-40	Individual Surface	**$39.40**
1044C	4-40	Continuous Surface	**39.00**
1044P	4-40	Individual Pendant	**42.15**
1022	2-40	Individual Surface	**24.50**
1022P	2-40	Individual Pendant	**27.25**



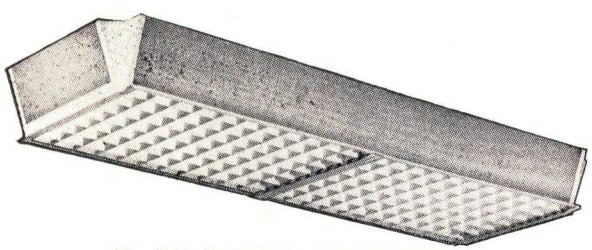
No. 1045 (1040 Basic Unit and Kit 5)

SKYLOUVER SHALLOW LUMINAIRE

Modern Electro Engineering develops the latest in plastic moulding to bring a wafer-thin, shallow type luminaire to reality. Louver made of translucent molded plastic. Side panels of molded polystyrene, heat-resisting and non-warping. Kit contained in basket-like hinged metal frame, permitting exceptionally low cost and easy maintenance. Cut-off 45°-30°. Available in four-lamp 40-watt and two-lamp 40-watt, surface or pendant installation.

Model No.	Lamps and Wattage	Description	Less Lamps
1025	2-40	Individual Surface	**$40.80**
1025P	2-40	Individual Pendant	**43.55**
1045	4-40	Individual Surface	**60.00**
1045P	4-40	Individual Pendant	**62.75**
1046	4-40	Individual Surface	**60.00**
1046P	4-40	Individual Pendant	**62.75**

No. 1046 same as No. 1045 except with bottom glass.



No. 1043 (1040 Basic Unit and Kit 3)

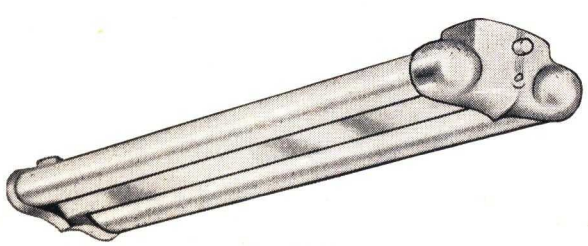
MASTERPIECE LOUVERED LUMINAIRE

On work requiring critical seeing under conditions entailing low surface brightness — this new fixture rates ace-high for lighting efficiency and minimum maintenance.

Readily demountable louvers. Maximum efficiency. Low surface brightness. Diffused illumination. Ease of maintenance.

Louver-Lite Luminaire

Model No.	Lamps and Wattage	Description	Less Lamps
1043	4-40	Individual Surface	**$60.00**
1043C	4-40	Continuous Surface	**57.80**
1043P	4-40	Individual Pendant	**62.75**



No. 222-P

ELECTRO'S LIGHTHOUSE FLUORESCENT ADAPTER

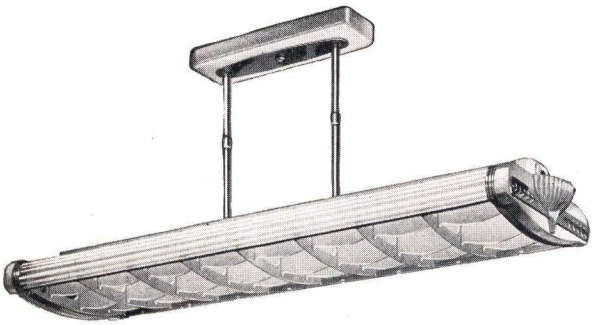
For kitchen, bathroom, recreation room and many other locations within the home. Its cool, soft, glareless rays and remarkable ease on the eyes closely resemble daylight. The gleaming white Liquid Plastic finish wipes clean in a jiffy — stays bright and beautiful forever. U.L. approved.

Price, No. **222P** (2-20 watt).....less bulbs **$8.95**

226P—Same as above except for permanent mounting.

VIRDEN FLUORESCENT LIGHTING

VF-8440-C AND VF-8440-P SHIELDED FLUORESCENT FIXTURES



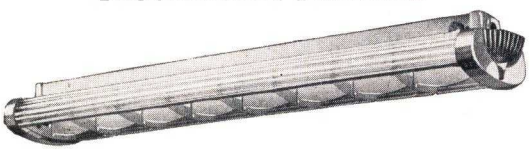
This complete Pendant fixture No. VF-8440-P as illustrated is designed and constructed for individual mounting — and is an assembly of Kits listed in the table below. For 4-40W lamps. Fixture dimensions, 16 inches wide by 52⅝ inches long — 30 inches length overall from ceiling.

No. VF-8440-C Close Ceiling fixture same as above, less Twin Stem Pendant. Fixture dimensions, 16 inches wide x 52⅝ inches long — 5¾ inches length overall from ceiling.

Baked White Enamel and Polished Chrome.

Fixture No.	Description of Kits Required	List Price
VF-8440-C	No. VK-744—4-40W Chassis	$33.78
	No. VK-440—4-40W Shield	16.56
	Complete Fixture	**$50.34**
VF-8440-P	No. VK-744—4-40W Chassis	$33.78
	No. VK-440—4-40W Shield	16.56
	No. VK-300—Twin-Stem Pendant	5.00
	Complete Fixture	**$55.34**

VF-8240-C AND VF-8240-P SHIELDED FLUORESCENT FIXTURES



This complete Close Ceiling fixture No. VF-8240-C as illustrated is designed and constructed for individual mounting — and is an assembly of Kits listed in the table below. For 2-40W lamps. Fixture dimensions, 9½ inches by 52⅝ inches long — 5¼ inches length overall from ceiling.

No. VF-8240-P Pendant fixture same as above with Twin-Stem Pendant. Fixture dimensions, 9½ inches wide by 52⅝ inches long — 29½ inches length overall from ceiling.

Baked White Enamel and Polished Chrome.

Fixture No.	Description of Kits Required	List Price
VF-8240-C	No. VK-724—2-40W Chassis	$20.44
	No. VK-240—2-40W Shield	11.60
	Complete Fixture	**$32.04**
VF-8240-P	No. VK-724—2-40W Chassis	$20.44
	No. VK-240—2-40W Shield	11.60
	No. VK-300—Twin-Stem Pendant	5.00
	Complete Fixture	**$37.04**

VIRDEN FLUORESCENT LIGHTING

VF-7440-C AND VF-7440-P EXPOSED FLUORESCENT FIXTURES



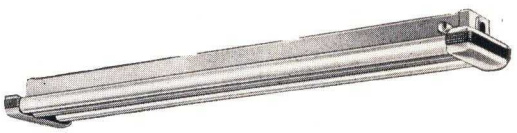
This complete Pendant fixture No. VF-7440-P as illustrated is designed and constructed for individual mounting — and is an assembly of the Kits listed in the table below. For 4-40W lamps. Fixture dimensions, 13½ inches wide by 49¾ inches long — 28 inches length overall from ceiling.

No. VF-7440-C Close Ceiling fixture same as above, less Twin-Stem Pendant. Fixture dimensions, 13½ inches wide by 49¾ inches long — 3¾ inches length overall from ceiling.

Baked White Enamel and Polished Chrome.

Fixture No.	Description of Kits Required	List Price
VF-7440-C	No. VK-744—4-40W Chassis	$33.78
	No. VK-500—Pair 4-Lt. End Caps	2.44
	Complete Fixture	**$36.22**
VF-7440-P	No. VK-744—4-40W Chassis	$33.78
	No. VK-500—Pair 4-Lt. End Caps	2.44
	No. VK-300—Twin Stem Pendant	5.00
	Complete Fixture	**$41.22**

VF-7240-C AND VF-7240-P EXPOSED FLUORESCENT FIXTURES



This complete Close Ceiling fixture No. VF-7240-C as illustrated is designed and constructed for individual mounting — and is an assembly of the Kits listed in table below. For 2-40W lamps. Fixture dimensions, 7½ inches wide by 49¾ inches long — 3¾ inches length overall from ceiling.

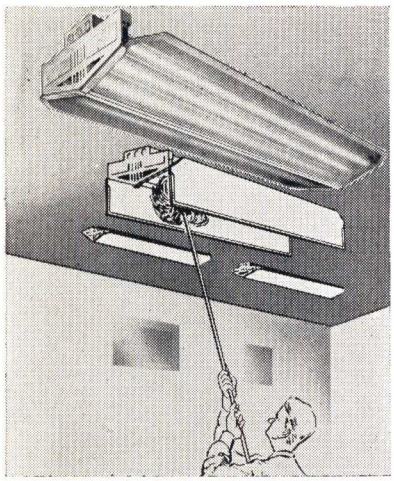
No. VF-7240-P Pendant Fixture same as above with Twin-Stem Pendant. Fixture dimensions, 7½ inches wide by 49¾ inches long—28 inches length overall from ceiling.

Baked White Enamel and Polished Chrome.

Fixture No.	Description of Kits Required	List Price
VF-7240-C	No. VK-724—2-40W Chassis	$20.44
	No. VK-400—Pair 2-Lt. End Caps	2.00
	Complete Fixture	**$22.44**
VF-7240-P	No. VK-724—2-40W Chassis	$20.44
	No. VK-400—Pair 2-Lt. End Caps	2.00
	No. VK-300—Twin-Stem Pendant	5.00
	Complete Fixture	**$27.44**

GUTH LIGHTING EQUIPMENT

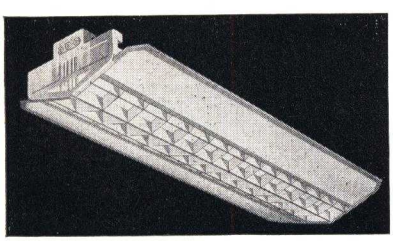
GUTH FLOATING-HINGE ARISTOLITE



Provide high quality diffused illumination and make it a simple matter to clean the glass diffusing panels and maintain the effciency of luminaires. The glass diffusing panels are hung on floating hinges and are easily opened from the floor with a simple servicing tool. The fixture and diffusers are dusted with the cleaning end of the tool.

Cat. No.	Lamp Wattage	Dimensions, Inches	Shpg. Wt. Lbs.	List Price
M3530	2-40W	48⅛x12½x6¾	35	**$40.50**
M3531	3-40W	48⅛x12½x6¾	38	**53.50**
M3532	4-40W	48⅛x17¼x6¾	47	**60.00**
R6995	Servicing Tool		----	**5.60**

GUTH EGGCRATE HINGED ARISTOLITE



Provides efficient down-lighting, and diffused side-lighting. Easy to maintain. Hinged Glass Diffusers are easily opened and cleaned in the same manner as the Floating-Hinge Aristolite.

Cat. No.	Lamp Wattage	O.A. Drop Inches	Shpg. Wt. Lbs.	List Price
M3040	2–40W	7	39	**$45.25**
M3041	3–40W	7	43	**58.25**
M3042	4–40W	7	49	**64.50**

Above fixture is for close-ceiling mounting. If suspension is desired, specify M-3333 hanger, list price $5.25 additional.

GUTH LIGHTING EQUIPMENT

GUTH MAZELITE

Hinged Reflector Turret Sockets



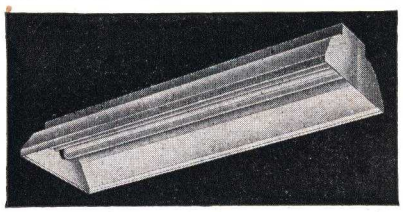
The Guth Mazelite features hinged reflectors that are easily opened to either side or completely removed. Handy turret sockets are proved in 2, 3 and 4-40 watt units. Conventional sockets are provided in the 2-85 watt unit. Made of heavy gauge steel, finished 300° Metallic Gray Permalux with 300° White reflectors.

Cat. No.	Lamp Wattage	Dimensions, Inches Length	Width	Depth	Shpg. Wt.Lbs.	List Price
M3852	2–40W	49⅛	13	6⅝	26	**$28.50**
M3853	3–40W	49⅛	13	6⅝	30	**41.50**
M3854	4–40W	49⅛	18½	8	37	**48.50**
M3855	2–85W	60⅛	16	7½	40	**54.50**

Quick-Liter Available

Guth MAZELITE is available with Quick-Liter ballast. This provides Cold-Cathode lighting and does away with Starter Switches. It is approved by Underwriters' Laboratories. Available for the Quick-Liter ballasts for 2-40 watt units, add **$7.25** to list; for 4-40 watt units, add **$14.50** to list.

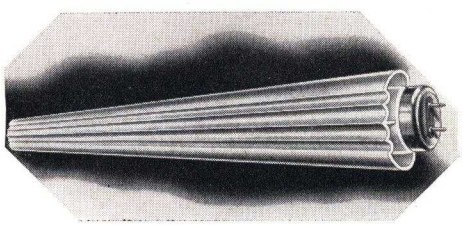
GUTH UTILITY FLUOFLECTOR



UTILITY FLUOFLECTORS are equipped with genuine Alzak aluminum reflectors, which provide a "livelier" more exhilarating and more efficient downward-light. Have lower surface brightness for "surer" seeing.

Cat. No.	Lamp Wattage	Dimens., Inches Lgth.	Wdth.	Depth	Shpg. Wt.Lbs.	List Price
M3085	2–40W	48⅛	13	6½	25	**$36.00**
M3086	3–40W	48⅛	13	6½	29	**49.00**
M3087	2–100W	60⅛	13	7½	38	**59.50**

GUTH PFC-100'S



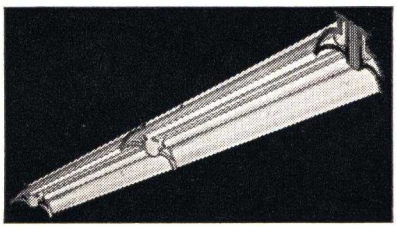
GUTH PFC-100's are "4-FOOT" White Plastic Shields which easily snap on and off 40-W (T-12) fluorescent lamps. PFC's reduce lamp brightness and diffuse light to minimize direct and reflected glare. PFC-100's are more efficient than glass panels.

List Price: **$4.00** each in lots of 24; **$5.00** each in lots of less than 24.

GUTH LIGHTING EQUIPMENT

GUTH FUTURLITER

For Offices, Schools and Stores

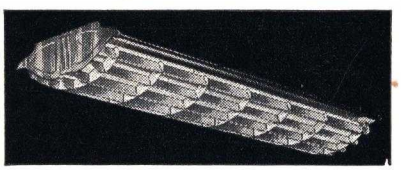


FUTURLITER provides fluorescent illumination with comfort, coolness and quantity of light. Can be mounted directly to the ceiling or suspended by stem hangers. Can be installed as individual units, or in continuous rows, end-to-end.

Cat. No.	Wired For	Dimens., Inches Lgth.	Wdth.	Dpth.	Shpg. Wt. Lbs.	List Price
M2505	2–40W	48	12	8	25	**$29.00**
M2506	3–40W	48	12	8	29	**42.00**

Eggcrates Available — FUTURLITER listed above can be equipped with Eggcrate louvres; List price **$5.50**. For M-3333 hanger, add **$5.25** list.

GUTH TRUCOLITE



TRUCOLITE represents the ultimate in design, efficiency, and lighting effectiveness. It is shown above with eggcrate louvres. Also available with glass bottoms. Prices upon request.

Cat. No.	Lamp Wattage	O.A. Drop Inches	Shpg. Wt. Lbs.	List Price
M3128	2-40W	5½	25	**$29.00**
M3129	3–40W	5½	28	**42.00**
M3130	4–40W	5½	35	**49.00**

If hanger is desired with fixture specify M-3333 hanger and add **$5.25** list. If M-3130 is desired with eggcrates add **$14.00** to price listed.

GUTH GERM-KILLING LIGHTS

Disinfect Air — Reduce Epidemics



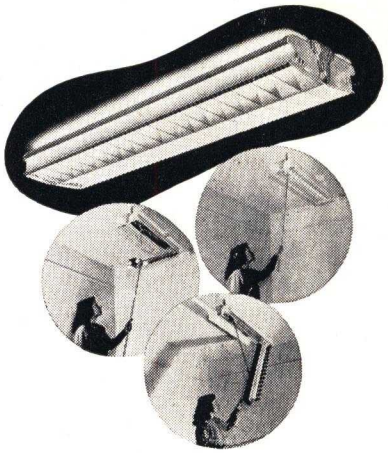
Guth Germ-Killing Lights destroy air-carried germs. They disinfect contaminated air by means of Ultra-Violet rays emitted from the tube. Fixtures mount on the wall 7 feet above the floor.

Cat. No.	Lamp Wattage	Length Inches	List Price
M2910	1–15W	18⅛	**$16.50**
M2911	1–30W	36⅛	**23.10**

Prices do not include Germicidal tubes (bulb). If cordset is desired, add **$2.00** list.

GUTH LIGHTING EQUIPMENT

GUTH-LITE WITH "JACKNIFE HINGE"



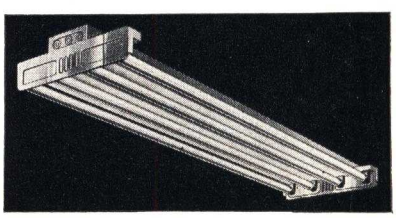
The GUTH-LITE with the ingenious "Jacknife Hinge" offers many exclusive advantages that save time and money in installation or maintenance operations. Lamps replaced, starters changed, louvres and reflectors are cleaned all right from the floor — no ladders, no fuss. The "Jacknife" construction of the GUTH-LITE also provides many short cuts in installation operations.

The GUTH-LITE is designed to efficiently provide high quality illumination and when illuminated has a pleasing radiant-glow effect. This luminous effect is accomplished with side and spill lighting without the use of glass or plastic panels.

Cat. No.	Lamp Wattage	Dimensions Inches	Shpg. Wt. Lbs.	List Price
M4444	2–40W	48⅜x12½x5	.....	**$43.50**
M4445	2–100W	60⅜x12½x5	.....	**72.50**

GUTH LIGHTRONICS

Exposed Lamp Fluorescent



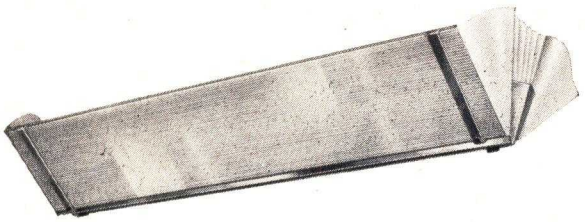
LIGHTRONICS — are efficient new light producers. Finished lustrous 300° White, all over. Made for 2, 3 or 4 rows of 40-watt lamps.

Cat. No.	Lamp Wattage	O.A. Drop Inches	Shpg. Wt. Lbs.	List Price
M3064	1–40W	5¼	14	**$19.75**
M3060	2–40W	5¼	17	**23.75**
M3061	3–40W	5¼	20	**38.00**
M3062	4–40W	5¼	28	**44.00**

Prices above are for close-ceiling types. If hanger is desired, specify M-3333, add **$5.25** list each.

SMITHCRAFT COMMERCIAL FIXTURES

SMITHCRAFT VISION V-2 AND V-4



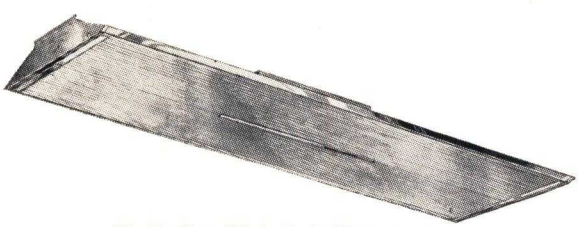
Vision V-4 (4 40-Watt Lamps)

The V-type fixture for use in stores, offices, hospitals and similar installations. Extra-thick side panels of diffused and ribbed glass provide soft pleasing light without glare. Opening along bottom of V prevents accumulation of dust, and a T-bar at this intersection prohibits direct view of lamps. Installation and maintenance have been simplified in this unit. Ceiling plate has been designed for speedy fastening to the ceiling — the housing hooks in easily — quickly opens or shuts as required. Can be surface or pendant mounted, individual or in continuous row. Reflectors are available at extra cost for 80 per cent down-lighting. QV-2 and QV-4 have lightning start.

Dimensions: 14 in. wide, 48¼ in. long, 8 in. deep.

Name	Cat. No.	No. of Lamps	Shpg. Wt. Lbs.	List Price
Vision	**V-2**	2 40-watt	48	**$38.65**
Vision	**V-4**	4 40-watt	56	**56.65**
Vision	**QV-2**	2 40-watt	53	**46.44**
Vision	**QV-4**	4 40-watt	66	**72.22**

SMITHCRAFT NORTH STAR NS-2 AND NS-21



North Star NS-2 (2 40-Watt Lamps)

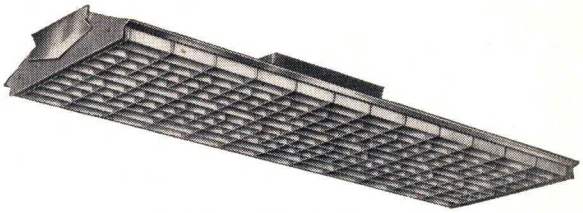
A shallow, distinctive fixture which provides an unprecedented degree of illumination in the vital working zone. The bottom panel is composed of two sections of prismatic glass, framed in polished chrome steel. Panels are hinged to open downward for servicing — easily unhooked for complete removal. Low brightness with high light output. Top of unit entirely enclosed with glass and metal reflectors to eliminate dust nuisance. No. NS-21 is for pendant mounting with a matching twin set, including canopy, stem-lock bar, and two 24-inch stems.

Dimensions: 15½ inches wide, 48⅛ inches long, 5 inches deep overall.

Name	Cat. No.	No. of Lamps	Shpg. Wt. Lbs.	List Price
North Star	**NS-2**	2 40-watt	45	**$39.66**
North Star	**NS-21**	2 40-watt	45	**42.66**

SMITHCRAFT COMMERCIAL FIXTURES

SMITHCRAFT DAYLITER D-2 AND D-21



Daylighter D-2 (2 40-Watt Lamps)

The Dayliter, shallow and efficient, provides an exceptionally high light output on the working zone. New louver design makes possible better diffusion and lower surface brightness, with a cutoff of 40 degrees crosswise and 30 degrees lengthwise. Even ceiling illumination, with no high spot glare. Duo-Cam Hangers (pat. pending) lock or release louver at either side by simple fingertip pressure, or, when desired, permit louver to be completely removed for maintenance. No. D-21 is designed for pendant mounting, with a special matching twin set (pat. pending), with canopy, stem-lock bar, and two 24-inch aluminum stems.

Dimensions: 15½ inches wide, 48⅛ inches long, 5¾ inches deep overall.

Name	Cat. No.	No. of Lamps	Shpg. Wt. Lbs.	List Price
Dayliter	**D-2**	2 40-watt	39	**$36.33**
Dayliter	**D-21**	2 40-watt	39	**38.00**

SMITHCRAFT KITCHENER K-1 AND K-2



Kitchener K-1 (2 40-Watt Lamps)

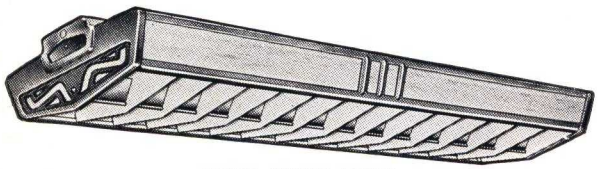
The most popular home fluorescent fixture, now greatly improved with end caps and center strip finished in permanent, colorful Alumilite. Choice of four colors: red, blue, green and polished aluminum. No. K-1, with cord, plug and adapter, can be easily attached without tools to the standard 4-inch holder. No. K-2, with canopy, fixture strap, and wire leads, is for permanent installation. Both types approved by Underwriters' Laboratories, Inc. A two 20-watt lamp fixture with normal power factor ballast and FS2 starters. High power factor ballast available at extra cost. The Kitchener is available also for two 25-watt lamps in both the K-1 and K-2 styles.

Dimensions: 6¾ inches wide, 24½ inches long, 2¼ inches deep (without canopy). K1-25 series, 6¾ inches wide, 33¼ inches long, and 2¼ inches deep.

Name	Cat. No.	No. of Lamps	Shpg. Wt. Lbs.	List Price
Kitchener	**K-1**	2 40-watt	4½	**$9.85**
Kitchener	**K-2**	2 40-watt	4½	**9.85**

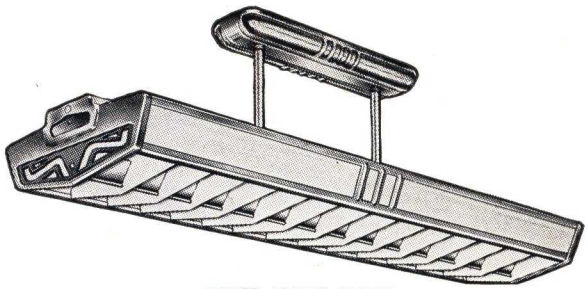
DAY-BRITE COMMERCIAL FLUORESCENT LIGHTING FIXTURES

Single Units



THE "VIZ-AID"
Surface Type No. 46202-4

For two 40-watt fluorescent lamps . . . surface mounting. Steel chassis and snap-on wireway cover are baked SUPER-WHITE enamel . . . Steel enclosure finished in baked lustre aluminum enamel. Side panels are ribbed diffuse glass. Center V-type louver is specular finish, lateral louvers are baked SUPER-WHITE enamel. Enclosure fastens to chassis by spring clips. Service chains to lower enclosure for maintenance are provided. Furnished wired with sockets, NO-BLINK type starters, and HPF ballasts for 110-volt A.C. operation.



THE "VIZ-AID"
Suspension Type No. 46203-4

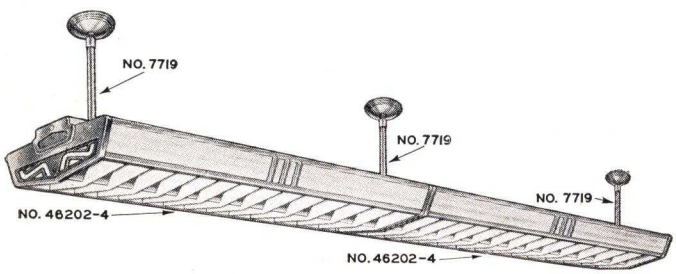
For two 40-watt fluorescent lamps . . . suspension mounting. Steel chassis and snap-on wireway cover and baked SUPER-WHITE enamel . . . Steel enclosure and hangers finished in baked lustre aluminum enamel. Side panels are ribbed diffuse glass. Center V-type louver is specular finish, lateral louvers are baked SUPER-WHITE enamel. Enclosure fastens to chassis by spring clips. Service chains to lower enclosure for maintenance are provided. Furnished wired with sockets, NO-BLINK type starters, and HPF ballasts for 110-volt A.C. operation.

Schedule "S" Discounts **Prices include NO-BLINK type starters**

Catalog No.	For Lamps: No.	For Lamps: Size	Body Dimens., Inches: Length	Width	Height	Overall Height* Inches	Approx. Shpg. Wt. Lbs.	List Each
46202-4	2	40w.-110v.	49	13	6¼	.....	35	**$41.40**
46203-4	2	40w.-110v.	49	13	6¼	33¼	40	**46.90**

*Hanger length, 27 inches (ceiling to top of fixture body). (Lamps not included.)

Continuous Viz-Aid Fixtures



"A-J" ADJUSTABLE HANGERS No. 7719



One required at each end and coupling point

For continuous installation . . . either surface or suspension type . . . fixtures of any desired length can be made up from the parts listed here.

For surface or suspension type continuous installations, order required No. 46202-4 basic assemblies.

On suspension type installations, order two No. 7719 "A-J" Adjustable Hangers (one for each end of each continuous run) and one No. 7719 Adjustable Hanger for each junction of the basic assemblies. Fasten Hangers to ceiling, butt assemblies together and fasten to hangers through mounting holes in back of chassis, and the job is completed. Hangers provide over one inch of vertical adjustment through hand-operated fittings. Stems are calibrated to indicate adjustment up or down.

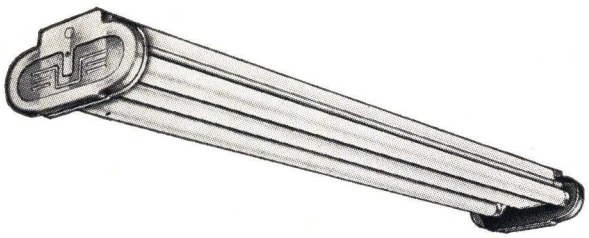
Schedule "S" Discounts **Prices include NO-BLINK type starters**

Catalog No.	Description	List Each
46202-4	Basic Assembly, 48½ inches long.....	**$41.40**
7719	"A-J" Adjustable Hangers (one required at each end and coupling point). Length, 28½ inches maximum. Packed 2 per carton	**3.50**

(Lamps not included)

DAY-BRITE COMMERCIAL FLUORESCENT LIGHTING FIXTURES

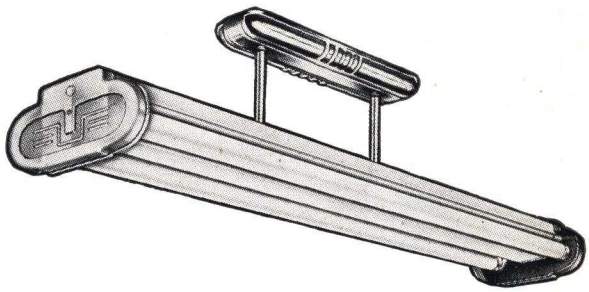
Single Units



THE "TOPNOTCH"

Surface Type No. 46200-4

For two 40-watt fluorescent lamps . . . surface mounting. Steel chassis and snap-on wireway cover are baked SUPER-WHITE enamel. Steel end plates finished in baked lustre aluminum enamel. Chassis is provided with all necessary holes and K.O.'s for quick fastening to ceiling and for wire connections. Furnished wired and include NO-BLINK type starters, sockets, and HPF ballasts for 110-volt, 60-cycle, A.C. operation.



THE "TOPNOTCH"

Suspension Type No. 46201-4

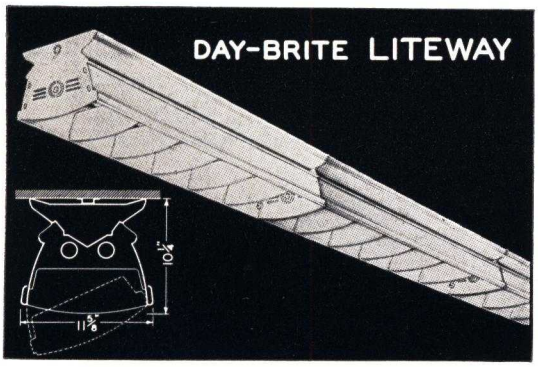
For two 40-watt fluorescent lamps . . . suspension mounting. Steel chassis and snap-on wireway cover are baked SUPER-WHITE enamel. Steel end plates finished in baked lustre aluminum enamel. Hangers include bridge-type ceiling strap, stems, swivel fittings, wire, stamped canopy and all necessary parts for complete installation. Furnished wired and include NO-BLINK type starters, sockets, and HPF ballasts for 110-volt, 60-cycle, A.C. operation.

Prices Include NO-BLINK Type Starters

Cat. No.	For Lamps		Body Dimens., Inches			Overall Hght.* Inches	Approx. Shpg. Wt. Lbs.	List Each
	No.	Size	Length	Width	Height			
46200-4	2	40w-110v	48½	9¼	4¾	.....	21	**$24.50**
46201-4	2	40w-110v	48½	9¼	4¾	31¾	26	**30.00**

*Hanger length, 27 inches (ceiling to top of fixture body).

"LITEWAY" COMMERCIAL UNITS



These new Day-Brite louver type exposed Troffers for direct ceiling mounting are designed for single unit installations and long continuous runs. For two 48" 40-watt lamps parallel. End plates have a cut-out design that produces a glowing appearance and adds a decorative effect to the fixture. Side openings on the fixture provide for ceiling lighting which increases overall efficiency, gives wider distribution and adds to the general appearance of the installation. Lamps are easily removed through side opening without disturbing louvers.

Louvers—Individual louvers are furnished with fixtures. They are spaced 8" O.C. in 4-ft. units. Louvers are removable, no screws.

Entire fixture and louvers finished in Day-Brite "SUPER-WHITE" baked enamel.

Units are complete in one piece and designed for easy installation and servicing . . . no loose parts to assemble.

Lead wires for service connection only are furnished in fixture. No extension provided for connections outside of unit. For 110-125 volt A.C. operation.

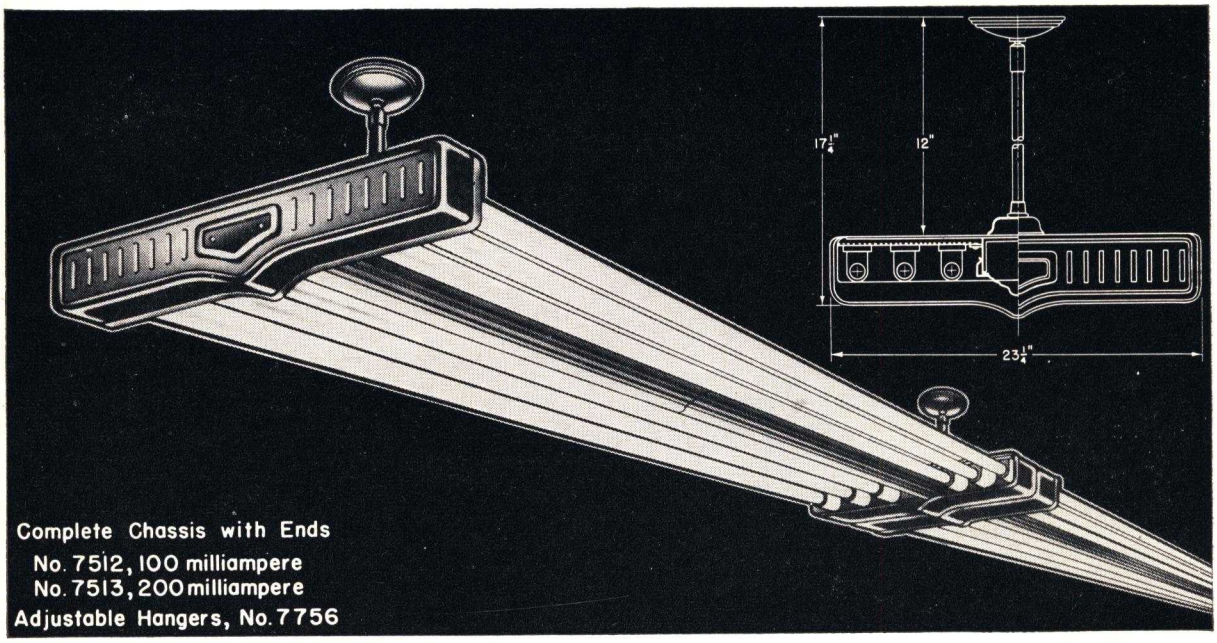
Schedule "S" Discounts

Cat. No.	For Lamps		Overall Length	List Price	Approx. Wt., Lbs.
	No.	Size			
Two-Light Units					
45220-4	2	48"-40w	48⅛"	**45.30**	35

DAY-BRITE SLIMLINE COMMERCIAL FIXTURES

SINGLE UNITS AND CONTINUOUS FIXTURES

For Six 96-inch Lamps



For general lighting applications in stores where abundance of wide spread illumination is desired, the fixtures shown here are extremely well fitted. They are available for six 8-ft., T-8 Slimline lamps, and are recommended for suspension mounting only.

The center channel is of 18-gauge steel and the socket saddles are of 16-gauge steel. All parts are die-formed and either riveted or bolted together. Removable channel covers are of 20-gauge steel, are screwed into position, and are easily removable for access to ballasts and wiring. The entire chassis is rust inhibited and finished in baked SUPER-WHITE enamel.

The embossed ends are die-drawn steel, rust-inhibited, and finished in baked lustre aluminum enamel. They are designed to shield the sockets and lamp ends. Removable end plates are provided so that units can be fastened together and line wires fed through on continuous installations.

The "A-J" Adjustable Hangers used with these fixtures provide over one inch of vertical adjustment for aligning units after they have been installed.

These Slimline fixtures for six lamps are listed below as single units and in continuous lengths. They are priced complete with all hangers and parts necessary for a complete installation and can be furnished with ballasts for lamp operation of 100 and 200 milliamperes. All fixtures are furnished individually wired (through circuit wires not included) and include sockets and HPF ballasts for 118-volt, 60-cycle, A.C. operation.

COMPLETE SINGLE UNITS AND CONTINUOUS FIXTURES

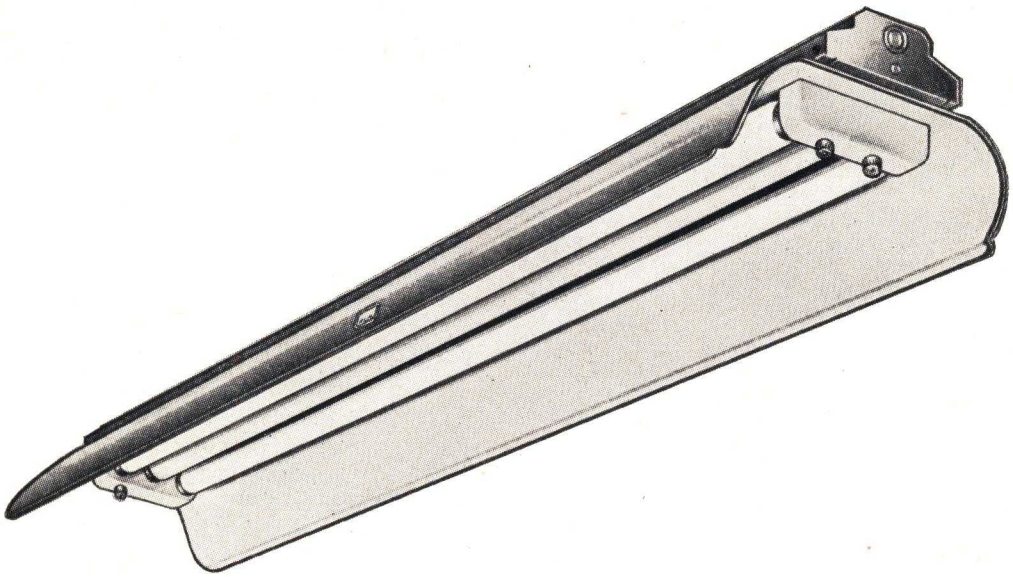
Schedule "S" Discounts

Total Overall Length of Fixture	For Total Number of Lamps	No. of 100 MILLIAMPERE CHASSIS **Cat. No. 7512 $120.00 ea.**	No. of 200 MILLIAMPERE CHASSIS **Cat. No. 7513 $130.00 ea.**	No. of "A-J" Adjustable Hangers **No. 7756 $4.00 ea.**	LIST PRICES COMPLETE			
					100 MILLIAMPERE		200 MILLIAMPERE	
					Catalog No.	Price	Catalog No.	Price
8'- ¾"	6	1	1	2	7512- 8	$137.00	7513- 8	$154.50
16'-1½"	12	2	2	3	7512-16	270.50	7513-16	305.75
24'-2¼"	18	3	3	4	7512-24	404.50	7513-24	457.00
32'-3"	24	4	4	5	7512-32	538.25	7513-32	608.25
40'-3¾"	30	5	5	6	7512-40	672.00	7513-40	759.50
48'-4½"	36	6	6	7	7512-48	805.75	7513-48	910.75
56'-5¼"	42	7	7	8	7512-56	939.50	7513-56	1062.00

DAY-BRITE FLUORESCENT INDUSTRIAL FIXTURES

"DAY-LINE" RLM Units

For 40- and 85-Watt Lamps



Complete single units with open end reflectors for two or three 40-watt lamps and two 85-watt lamps.

Servicing Features—Sockets, lamp starters and ballasts are fastened in the fixture, leaving reflector free for complete removal for servicing and cleaning. The reflector is fastened to the hood by two hand-operated, non-removable wing nuts which are easily loosened without the use of tools. Lamp starters can be replaced without disturbing the lamps.

Reflectors—Finished in porcelain enamel consisting of one ground coat and two white coats inside and one ground coat and one gray coat outside. The reflection factor is 79% or more and lateral shielding angle is 13° on 40-watt units and 14° on 100-watt units.

Fixture Hood—Die-formed steel channel finished in baked aluminum gray enamel.

Wiring and Control Equipment — Fixtures furnished wired with HPF ballasts, no-blink type starters and sockets for 60 cycle, A.C. operation.

Standard Package—One Fixture.

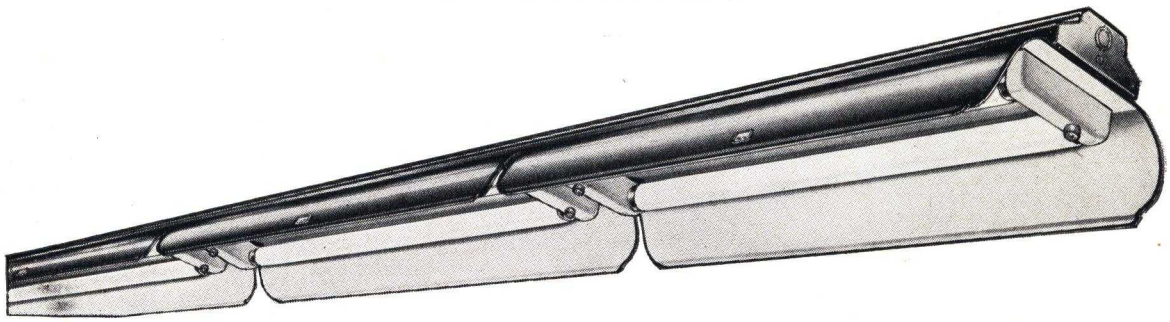
The new Turret sockets are used on the 40-watt fixtures for trouble-free lamp mounting and to speed maintenance. Push lamp either way to install or remove.

Schedule "S" Discounts—Fixtures Include No-Blink Type Starters

For Lamps No.	For Lamps Size	WIRED Without Cord and Plug Cat. No.	WIRED Without Cord and Plug Price	WIRED With 3-Wire Cord and Plug Cat. No.	WIRED With 3-Wire Cord and Plug Price	Overall Dimensions Height	Overall Dimensions Width	Overall Dimensions Length	Approx. Shipping Weight, Lbs.
				For Two 40-Watt Lamps					
2	48″-40w-110v	**40281-W**	**$36.25**	**40281-X**	**$38.15**	7″	13¼″	52¾″	33
				For Three 40-Watt Lamps					
3	48″-40w-110v	**40381-W**	**49.60**	**40381-X**	**51.50**	7″	13¼″	52¾″	38
				For Two 85-Watt Lamps					
2	60″-85w-110v	**50231NBW**	**64.00**	**50231NBX**	**65.90**	8⅛″	16¼″	66″	55

DAY-BRITE FLUORESCENT INDUSTRIAL FIXTURES
"DAY-LINE" RLM Continuous Fixtures

For 40- and 85-Watt Lamps



A continuous "DAY-LINE" installation for two or three 40-watt lamps and two 85-watt lamps can be made up from the parts listed here.

A complete installation is made up of as many 8-ft. (105½" long) or 10-ft. (132" long) Basic sections as may be required. These sections have two reflectors and the 40-watt size accommodates four or six lamps, the 85-watt size, four lamps. Channel couplings and end caps must be ordered as needed. In the event that an odd length is required for fill-in, a 4-ft. section (52¾" long) or a 5-ft. section (66" long) can be used.

Reflectors are one-piece porcelain enamel and accommodate two or three 40-watt or two 85-watt lamps. They are finished with one ground coat throughout with a second coat of light gray on the outside and white on the inside.

Reflectors are fastened to channel by two hand-operated non-removable wing nuts . . . easily removed by hand. Cleaning of the reflector and access to fixture interior is thereby simplified.

Fixtures are furnished wired and include sockets, HPF ballasts and No-Blink type starters. Starters are located behind the lamps for ease of maintenance. Turret sockets furnished on 40-w. fixtures.

Channel is finished in baked aluminum gray enamel. Unique design of this channel permits the application of the mounting accessories listed.

Schedule "S" Discounts—Fixtures Include No-Blink Type Starters

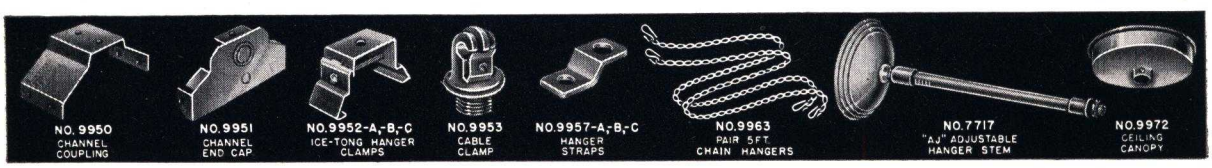
FOR 48-INCH, 40-WATT, 110-VOLT LAMPS

8-Foot Section with Two Reflectors							4-Foot Fill-In Section						
No. Lamps	Cat. No.	Price	Overall Dimensions Height	Width	Length	Approx. Weight Lbs.	No. Lamps	Cat. No.	Price	Overall Dimensions Height	Width	Length	Approx. Weight Lbs.
4	41488	$71.90	7"	13¼"	105½"	62	2	41284	$35.25	7"	13¼"	52¾"	31
6	41688	95.75	7"	13¼"	105½"	69	3	41384	48.60	7"	13¼"	52¾"	35

FOR 60-INCH, 85-WATT, 110-VOLT LAMPS

10-Foot Section with Two Reflectors							5-Foot Fill-In Section						
4	51432N	$121.50	8⅛"	16¼"	132"	102	2	51232N	$63.00	8⅛"	16¼"	66"	52

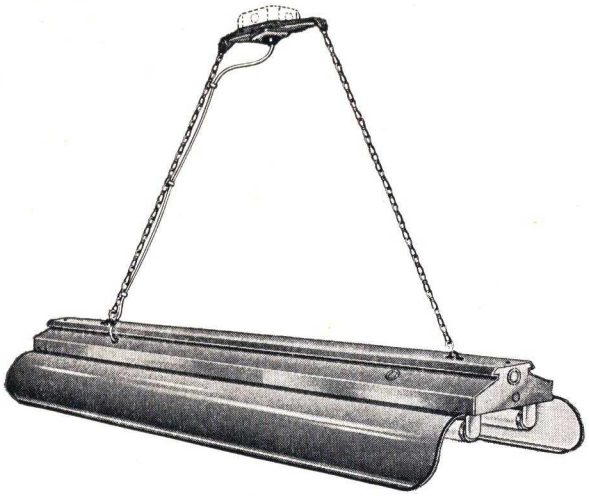
FITTINGS



Schedule "S" Discounts

No.	Description	List Price Each	Approx. Wt., Lbs.
7717-A-J	Adjustable Stem Hanger	$3.40	2½
9950	Channel Coupling	.60	½
9951	Channel End Cap	.50	¼
9952-A	"Ice-Tong" Hanger Clamp for ⅜" rod or mounting screw	1.00	1
9952-B	"Ice-Tong" Hanger Clamp for ½" conduit pipe hangers	1.00	1
9952-C	"Ice-Tong" Hanger Clamp for ⅜" iron pipe hangers	1.00	1
9953	Cable Clamp for messenger cable mounting	1.15	1
9957-A	Hanger Strap for ⅜" rod	.30	¼
9957-B	Hanger Strap for ½" conduit pipe hangers	.30	¼
9957-C	Hanger Strap for ⅜" iron pipe hangers	.30	¼
9972	Ceiling Canopy for use with ½" iron pipe	1.00	½
9963	One pair 5-ft. Chain Hangers with "S" hooks	.80	¼

DAY-BRITE "HYDEE" FIXTURE HANGER

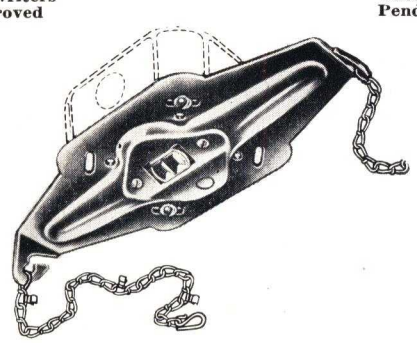


TYPICAL INDUSTRIAL FIXTURE INSTALLATION

The new DAY-BRITE "HYDEE" hanger can be used with all chain suspension mounted industrial fixtures. It is furnished complete including receptacle for two-prong plug, two 5 ft. chains, "S" hooks and cord clamps.

Two screws hold the "HYDEE" hanger to the ears of a standard outlet box or plaster ring. It fits both 3¼ and 4-inch outlet boxes.

Underwriters' Approved **Patents Pending**



Catalog No. 9988

Schedule "S" Discounts

The "HYDEE" hanger, when used with the chains that are furnished, provides grounding for the fixture if the outlet box is grounded, thus allowing the use of two wire cord and plug sets.

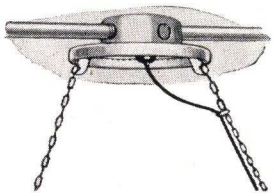
This is an entirely new and different method of fixture support design that will save time and expense in installation and maintenance. An additional feature of this new idea is the fact that the entire fixture can be easily removed for servicing, eliminating the necessity of doing extensive repair work at the point of installation.

The "HYDEE" hanger, Catalog No. **9988,** lists at **$1.65** each in quantities of ten or more. For less than ten, add 10%.

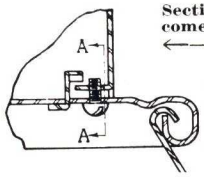
APPLETON FIXTURE HANGERS

TYPE "SFH"—FOR FLUORESCENT LIGHTING FIXTURES

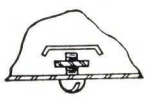
For Use with 4-0 Outlet Boxes and with "SEH" Series Round Unilets



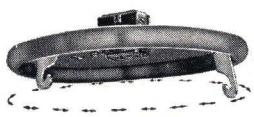
Section through Ear and Clip. If screw comes loose, clip will hang on ear.



Section showing Ear bent down on ends preventing ear from sliding out.



Section A-A



Type "SFH" Fixture Hanger

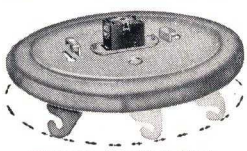
The New and Improved Type "SFH" Fluorescent Fixture Hanger is designed with an added safety factor in mind.

The above cutaway views show a clip which fits around the ear of the Outlet Box. In case the mounting screws should rust or come loose, the clips will support the fixture.

The Hanger has pear shaped holes which eliminate removing screws in the Outlet Box. After the screw heads clear the hole, a 10 degree turn brings hanger in place with clips behind ears in Outlet Box. A knockout is provided to take a Levolier switch.

Two Sliding Clips are provided to take chains for suspending fixture. Fixture may be swung in any direction by moving the two clips to any desired position. Small corrugations in hanger plate keep clips from sliding after fixture is hung.

Complete with Receptacle — Pass & Seymour No. 1320 Two-wire Receptacle



Patent Applied For

Cat. No.	Description	Std. Pkg.	Wt.Lbs. Per 100
11450	Hanger with Two 5 ft. Chains, Hooks and Cord Clips.....	10	210
11455	Hanger only	10	140

Complete with Receptacle — Hubbell No. 7586 Three-wire Twist-Lock Receptacle



Patent Applied For

Cat. No.	Description	Std. Pkg.	Wt.Lbs. Per 100
11451	Hanger with Two 5 ft. Chains, Hooks and Cord Clips.....	10	210
11456	Hanger only	10	150

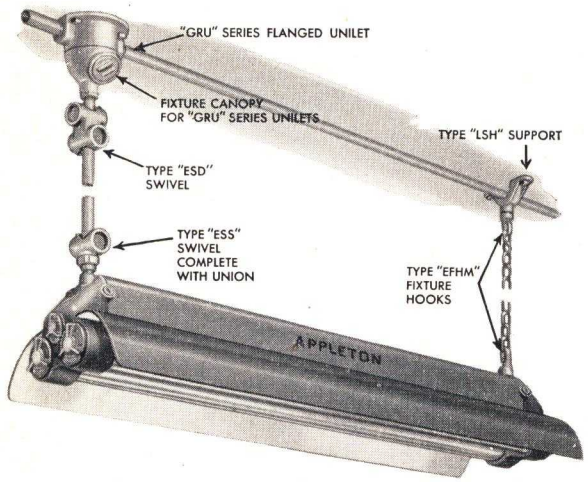
Cadmium Finish.

Schedule "OB" Discounts

APPLETON "EFU" EXPLOSION-PROOF FLUORESCENT LIGHTING FIXTURE

CLASS I, GROUPS C AND D
CLASS II, GROUPS E, F AND G

Made in Two Sizes and Designed for Use with Two 40-Watt, 48-Inch, T-12 also Two 100-Watt, 60-Inch, T-17 Fluorescent Lamps



Type "EFU" Explosion-proof Fluorescent Lighting Fixture suspended more than 12 inches from Fixture Canopy with "GRU" Flanged Unilet, Fixture Canopy and Type "ESD" and "ESS" Swivels.

The development of Appleton Explosion-proof Fluorescent Lighting Fixtures, opens a new field of modern lighting for hazardous locations. The advantages of fluorescent lighting include new working comfort due to low brightness and lack of glare; high efficiency when compared with incandescent lamps of equal wattage; and the ever important safety of operation in explosive atmospheres due to cooler operating temperatures.

Hospital operating rooms, volatile fuel and chemical refineries, powder manufacture and shell loading, flour and grain mills are a few of the many locations where fluorescent lighting may now be safely applied.

These Lighting Fixtures are designed to be suspended horizontally or at 45 degrees. No external seals are necessary as all seals and internal wiring are completed in manufacture. Line connections are made to terminal block in junction chamber.

The Fixtures can be relamped by lowering at chain end if an extra 3 inches of chain is provided when fixtures are installed. Also, relamping from either end is possible by swinging fixture out of line with the use of a Type "ESS" Swivel.

The 1947 National Electrical Code, Article 500 calls for flexibility in the form of a fitting or flexible connector to be used when lighting fixtures are suspended more than 12 inches from fixture canopy. The Types "ESS" and "ESD" Swivels shown in illustration above will give the fixture this flexibility.

Standard equipment of all Appleton Fluorescent Lighting Fixtures includes the following:

High power factor two-lamp ballast.

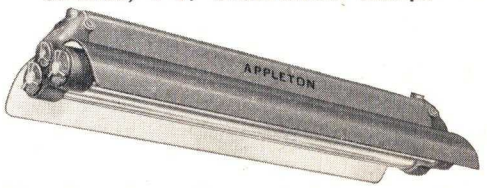
Necessary auxiliary equipment.

Two-piece steel reflector with high reflection factor; inside white, outside grey.

APPLETON "EFU" EXPLOSION-PROOF FLUORESCENT LIGHTING FIXTURE

CLASS I, GROUPS C AND D
CLASS II, GROUPS E, F AND G

Made in Two Sizes and Designed for Use with Two 40-Watt, 48-Inch, T-12 also Two 100-Watt 60-Inch, T-17 Fluorescent Lamps



Ballast Size: One 2-lamp of 95% power factor.

Cat. No.	Hub Size	Circuit Voltage	Normal Voltage	Cycle	Wt. Lbs. Each	Price Each
Two 40-Watt, 48-Inch T-12 Lamps†						
A-174	½	110-125	118	60	49	●
A-175	½	199-216	208	60	49	●
A-176	½	220-250	236	60	49	●
A-177	½	240-280	260	60	49	●
Two 100-Watt, 60-Inch T-17 Lamps†						
A-178	¾	110-125	118	60	98	●
A-179	¾	199-216	208	60	98	●
A-180	¾	220-250	236	60	98	●
A-181	¾	240-280	260	60	98	●
Two T-12, Instant Start Lamps†						
A-182	½	110-125	118	60	49	●

Dimensions

Cat. No.	Overall Length	Overall Width	Overall Height	Tube Centers	Mounting Centers
A174-A177	52 7/16"	15"	8¾"	5"	46⅝"
A182	52 7/16"	15"	8¾"	5"	46⅝"
A178-A181	65 7/16"	16"	10½"	6"	59"

Reflector—Steel, White inside, Grey outside.
†Fluorescent Lamps not included.

ACCESSORIES



TYPE "ESD" SWIVEL

Cat. No.	Type	Size In.	Price Each
ESD-50	ESD	½	●
ESD-75	ESD	¾	●

TYPE "ESS" SWIVEL

Cat. No.	Type	Size In.	Price Each
ESS-50	ESS	½	●
ESS-75	ESS	¾	●





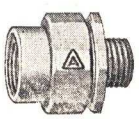
RIGID SUPPORT FOR DUMMY SIDE OF FIXTURE

Cat. No.	Type	Size In.	Price Each
52910	LSH	½ & ¾	●

HOOK FOR DUMMY SIDE OF FIXTURE

Cat. No.	Type	Size In.	Price Each
EFHM-50	Male	½	●
EFHM-75	Male	¾	●
EFHF-50	Female	½	●
EFHF-75	Female	¾	●





TYPE UNY UNION CONNECTOR

Cat. No.	Size In.	Lgth. In.	Diam. In.	Std. Pkg.	Price Each
UNY84	½	2⅛	1⅞	50	●
UNY85	¾	2⅛	1⅞	50	●

Cadmium finish.

●See Price List

SILV-A-KING INDUSTRIAL FLUORESCENT LIGHTING UNITS

RLM SPECIFICATIONS—WITH CONVENTIONAL LAMPHOLDERS

For 40 and 85-Watt Lamps

FEATURES

Reflector—Closed End: One-piece, drawn, seamless, non-welded construction. Completely porcelain-enameled, white inside, light gray outside. Removable without disturbing the auxiliaries or wiring. **Open End:** Either synthetic baked enamel or lifetime porcelain-enameled.

Hood—One-piece, drawn, seamless, non-welded construction. Gray enameled to match outside of reflector. Contains a set of mounting brackets for chain suspension and two sets of ½-inch knockouts for conduit suspension. Also slide-grip hanger grooves for U-type hanger straps. Knockouts in end for either a pull switch or coupling for continuous runs.

Wiring—Units come completely wired with 6-inch No. 18 AF wire leads, ready to install.

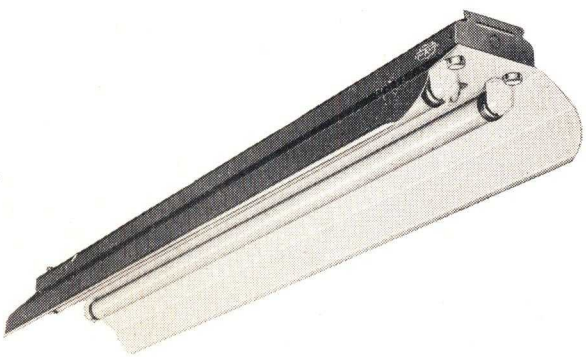
Auxiliaries—All auxiliary equipment is mounted to the hood to allow removal of reflector without disturbing the wiring. All ballasts are highpower factor type. Starters are separately mounted behind the lampholders to allow replacement without removal of lamps.

All units are fabricated and wired I.B.E.W., A. F. of L. All units are approved by Underwriters' Laboratories, Inc.

RLM SPECIFICATION (OPEN END)



2152P 40 Watt



2160P 85 Watt

Cat. No.	Line Voltage	Lamp Watts	Approx. Shpg. Wt. Lbs.	List Price
*2152S	110-125V.60C	2-40 W	28	$28.75
*2252S	220-250V.60C	2-40 W	28	28.75
2152P	110-125V.60C	2-40 W	30	31.25
2252P	220-250V.60C	2-40 W	30	31.25
*3152S	110-125V.60C	3-40 W	33	40.60
*3252S	220-250V.60C	3-40 W	33	39.40
3152P	110-125V.60C	3-40 W	35	43.10
3252P	220-250V.60C	3-40 W	35	41.85
*2160S	110-125V.60C	2-85 W	51	55.35
*2260S	220-250V.60C	2-85 W	51	55.35
2160P	110-125V.60C	2-85 W	56	57.90
2260P	220-250V.60C	2-85 W	56	57.90

RLM SPECIFICATION (CLOSED END)



7152P 40 Watt



7160P 85 Watt

Cat. No.	Line Voltage	Lamp Watts	Approx. Shpg. Wt. Lbs.	List Price
7152P	110-125V.60C	2-40 W	32	$36.25
7252P	220-250V.60C	2-40 W	32	36.25
8152P	110-125V.60C	3-40 W	37	48.10
8252P	220-250V.60C	3-40 W	37	46.90
7160P	110-125V.60C	2-85 W	60	68.60
7260P	220-250V.60C	2-85 W	60	68.60

Suffix "S" indicates a baked-enameled reflector, outside finish gray, inside white.

Suffix "P" indicates a 2-coat lifetime porcelain-enameled reflector, outside finish gray, inside white.

*Baked-enameled reflector units do not bear RLM Labels.

Above Units can be Furnished in 50 Cycles. Price Upon Request.

SILV-A-KING INDUSTRIAL FLUORESCENT LIGHTING UNITS

RLM SPECIFICATION—WITH TURRET LAMPHOLDERS

The Silv-A-King RLM "Specification" Industrial Units listed below have been redesigned to accept the 5-inch center G.E. Turret Lampholders. Features of this development are:

Safety—Spring-back plate with holes for accepting lamp pins removes the hazard of falling lamps, insures snug, positive holding action. Cannot jar loose from vibration.

Convenience—Lamps may be installed from either end of the Turret Lampholder, and are then automatically held in firm contact. Starter socket is built in, readily accessible.

Economy—Compact construction of Turret Lampholders prevents damage from rough handling, eliminates costly replacement problems.

Flexibility—Reflector size same for both 2 and 3 lamp turrets.

OPEN END RLM SPECIFICATION UNITS



2152PT 40 Watt

Cat. No.	Line Voltage	Lamp Watts	Approx. Shpg. Wt. Lbs.	List Price
*2152ST	110-125V.60C	2-40 W	29	$30.65
*2252ST	220-250V.60C	2-40 W	29	30.65
2152PT	110-125V.60C	2-40 W	31	33.15
2252PT	220-250V.60C	2-40 W	31	33.15
*3152ST	110-125V.60C	3-40 W	34	42.50
*3252ST	220-250V.60C	3-40 W	34	41.26
3152PT	110-125V.60C	3-40 W	36	45.00
3252PT	220-250V.60C	3-40 W	36	43.75

CLOSED END RLM SPECIFICATION UNITS



7152PT 40 Watt

Cat. No.	Line Voltage	Lamp Watts	Approx. Shpg. Wt. Lbs.	List Price
7152PT	110-125V.60C	2-40 W	33	$38.10
7252PT	220-250V.60C	2-40 W	33	38.10
8152PT	110-125V.60C	3-40 W	38	50.00
8252PT	220-250V.60C	3-40 W	38	48.75

Suffix "S" indicates a baked-enameled reflector outside finish gray, inside white.

Suffix "P" indicates a 2-coat lifetime porcelain-enameled reflector, outside finish gray, inside white.

Baked-enameled reflector units do not bear RLM labels.

Above units can be furnished in 50 cycles. Prices on request.

SILV-A-KING INDUSTRIAL FLUORESCENT LIGHTING UNITS

DIMENSIONS AND INSTALLATION DATA

Overall Dimensions: "Specification" 40 watt, O.A. length 52¼" (open end), 55¼" (closed end), O.A. width 13½", O.A. height 7½". "Specification" 85 watt, O.A. length 65" (open end), 66½" (closed end), O.A. width 16½", O.A. height 7¾".

Conduit Suspension: "Specification" 40 watt have two sets of ½" knockouts, spaced 17½" and 40" on centers. 85 watt units two sets of knockouts spaced on 17½" and 51¾" centers.

Chain Suspension: "Specification" 40 watt two steel mounting brackets for chain suspension are provided, spaced 44" on centers. On the "Specification" 85 watt the mounting brackets are 63¾" on centers. The feed wires can be brought into the hood through one of the knockouts provided. Chain can be supplied at additional cost.

Slide-Grip Hanger Suspension: Grooves are provided, on side of hood, almost the entire length of unit.

PARTS AND ACCESSORIES

P040R Open end "RLM" porcelain-enameled Reflector for 2 or 3 lamp 40W, conventional lampholders **$9.50**

P0T40R Open end "RLM" porcelain-enameled Reflector for 2 or 3 lamp 40W Turret Lampholders **$9.50**

P085R Open end "RLM" porcelain-enameled Reflector for 2 lamp 85W, conventional lampholders **$13.75**

PCT40R Closed end "RLM" porcelain-enameled Reflector for 2 or 3 lamp 40W, conventional lampholders **$15.00**

PCT40R Closed end "RLM" porcelain-enameled Reflector for 2 or 3 lamp 40W Turret Lampholders **$15.00**

PC85R Closed end "RLM" porcelain-enameled Reflector for 2 lamp 85W, conventional lampholders **$22.00**

CC Set of (N.Y.C. approved) heavy duty fixture chain — includes two 4-foot lengths..... **$1.25**

JC Set of jack-chain — includes two 4-foot lengths complete with "S" hooks..... **$1.25**

SJ2C #18 — 2 conductor 5 ft. Type SJ rubber cord and plug set..... **$1.40**

SJ3C #18 — 3 conductor 5 ft. Type SJ rubber cord and plug set..... **$2.00**

AF2C #18 — 2 conductor 5 ft. AF cotton-braid cord and plug set..... **$0.85**

LLS Levolier switch — 3 amp. 125 volt..... **$2.25**

HSC U-type slide hanger strap for 85W units..**$0.75**

UHS U-type slide-grip hanger strap for 40W units **$0.85**

MCC Messenger cable clamp..... **$0.60**

C40C Coupling for connecting two 40-watt open end reflector units..... **$1.00**

C50C Coupling for connecting two 40-watt closed end reflector units..... **$1.25**

C85C Coupling for connecting two 85-watt closed end reflector units..... **$1.25**

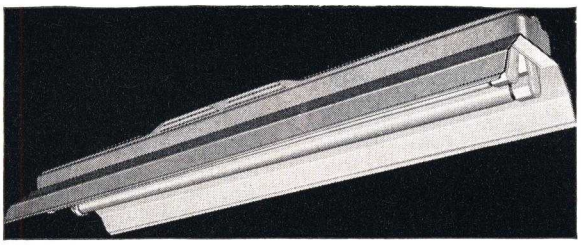
C850 Coupling for connecting two 85-watt open end units **$1.25**

18CS1 20" twin-stem canopy with (2) 18" lengths ½" conduit and accessories..... **$6.25**

30CS1 20" twin-stem canopy with (2) 30" length ½" conduit and accessories..... **$7.50**

BENJAMIN RLM "TWIN-FLO 40" AND "TRIPLE-FLO 40" FLUORESCENT LAMP UNITS

Listed by Underwriters' Laboratories



No. 40162

These 2-lamp and 3-lamp fluorescent units are used for general and local illumination.

Open-end, porcelain enameled steel reflector, white inside, light grey outside is easily removed from the light grey steel housing by a quarter turn of two hand operated "LOK-LATCH" reflector fasteners.

Exclusive Benjamin metal-clad "SPRINGLOX" safety type lampholders are incorporated in these units. "SPRINGLOX" lampholders offer a decided advancement in the ease of lamping and relamping fluorescent units and provide positive insurance against lamps dropping out.

Chains can be attached to brackets provided. Rigid conduit suspension is possible by utilizing any one of three pairs of conduit knockouts in top of housings.

"Twin-Flo 40" for Two 40-Watt (48-inch) Fluorescent Lamps
Dimensions of Unit 50¾ inches long by 6¾ inches high by 11½ inches wide

WITH CONVENTIONAL BALLASTS AND STANDARD LAMP STARTERS▲‡						
Line Voltage†	WIRED WITH 6-INCH LEADS		WIRED WITH 6-FOOT CORD AND PLUG			
			TWO-WIRE		THREE-WIRE	
	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
110-125 V. 60 Cy.*	40162	$27.00	40162-C	$28.70	40162-P	$29.20
220-250 V. 60 Cy.*	40182	27.00	.....	.....	40182-P	29.20
With Instant Starting Ballasts — No Lamp Starters Needed▲						
110-125 V. 60 Cy.	40262	34.70	40262-C	36.40	40262-P	36.90

"Triple-Flo 40" for Three 40-Watt (48-inch) Fluorescent Lamps
Dimensions of Unit 53¾ inches long by 7⅛ inches high by 13⅛ inches wide

WITH CONVENTIONAL BALLASTS AND STANDARD LAMP STARTERS▲‡						
110-125 V. 60 Cy.*	40163	$37.60	40163-C	$39.30	40163-P	$39.80
220-250 V. 60 Cy.*	40183	36.60	.....	.....	40183-P	38.80

* 50 Cycle ballast supplied, when specified, upon application.

† Can be supplied with 199-216 or 240-280 volt ballasts at 220-250 volt prices.

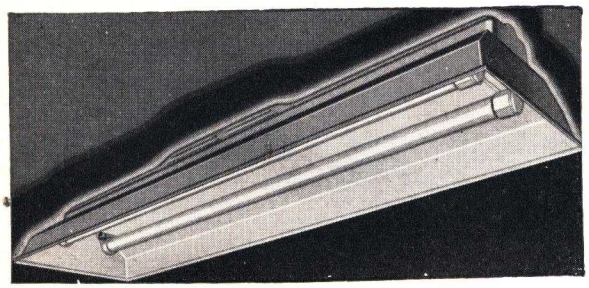
▲ Overall power factor of lamps and auxiliary equipment is 95%.

‡ Units can be supplied with non-blinking lamp starters, **$1.40** advance in list price for 2 lamp; **$2.10** advance in list price for 3 lamps. Add suffix "W" when ordering.

Net Schedule 2F

BENJAMIN RLM "STREAM-FLO 40" FLUORESCENT LAMP UNITS

Listed by Underwriters' Laboratories



No. 40662

These units are undoubtedly the best known and most widely accepted units of their type in the industrial and commercial lighting field; durably constructed for long, dependable service.

The reflector is of the closed-end type, porcelain enameled steel, finished white inside, light gray outside. Reflector is easily detached from the steel housing by a quarter turn of two hand operated "LOK-LATCH" reflector fasteners.

"Stream-Flo 40" units have the exclusive Benjamin metal-clad "SPRINGLOX" lampholders which offer a decided advancement in the ease of lamping and relamping fluorescent units and provide positive insurance against lamps dropping out.

Chains can be attached to brackets provided. Rigid conduit suspension is possible by utilizing any one of three pairs of conduit knockouts in top of housing.

"Stream-Flo 40" for Two 40-Watt (48-inch) Fluorescent Lamps
Dimensions of Unit 53¾ inches long by 7⅛ inches high by 13⅛ inches wide

With Conventional Ballasts and Standard Lamp Starters ▲ ‡

Line Voltage†	WIRED WITH 6-INCH LEADS		WIRED WITH 6-FOOT CORD AND PLUG			
			TWO-WIRE		THREE-WIRE	
	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
110-125 V. 60 Cy.*	40662	$32.00	40662-C	$33.70	40662-P	$34.20
220-250 V. 60 Cy.*	40682	32.00	.....	.....	40682-P	34.20
With Instant Starting Ballasts—No Lamp Starters Needed ▲						
110-125 V. 60 Cy.	40762	39.70	40762-C	41.40	40762-P	41.90

"Stream-Flo 40" for Three 40-Watt (48-inch) Fluorescent Lamps
Dimensions of Unit 53¾ inches long by 7⅛ inches high by 13⅛ inches wide

With Conventional Ballasts and Standard Lamp Starters ▲ ‡

110-125 V. 60 Cy.*	40663	$42.00	40663-C	$43.70	40663-P	$44.20
220-250 V. 60 Cy.*	40683	41.00	.....	.....	40683-P	43.20

*50 Cycle ballast supplied, when specified, upon application.
†Can be supplied with 199-216 or 240-280 volt ballasts at 220-250 volt prices.
▲Overall power factor of lamps and auxiliary equipment is 95%.
‡Units can be supplied with non-blinking lamp starters, **$1.40** advance in list price for 2 lamp; **$2.10** advance in list price for 3 lamp. Add suffix "W" when ordering.

TABLE FOR ESTIMATING AVERAGE FOOTCANDLES

Footcandle values based on minimum installation of 4 twin-lamp units with white lamps and maintenance factor of .75. Mounting heights shown are distance above floor; footcandle readings taken on working plane 30 inches above floor. For three lamp units use multiplication factor of 1.45.

WITH TWO WHITE FLUORESCENT LAMPS OF 2100 LUMENS EACH

Approx. Spacing	*Mounting Height Above Floor	Area Per Unit
7′x7′	7′6″ to 9′6″	49 Sq. Feet
8′x8′	8′ to 10′6″	64 Sq. Feet
9′x9′	8′6″ to 11′6″	81 Sq. Feet
10′x10′	9′6″ to 12′6″	100 Sq. Feet
11′x11′	10′ to 13′6″	121 Sq. Feet
12′x12′	10′6″ to 14′6″	144 Sq. Feet

Room‡ Conditions	Room Proportions** Favorable	Average	Unfavorable
	Average Footcandles (minimum 4 units)		
Very Light	45-48	41-44	29-33
Fairly Light	44-45	36-41	24-29
Fairly Dark	42-44	32-36	22-24•
Very Light	34-36	31-34	22-25
Fairly Light	33-34	28-31	18-22
Fairly Dark	32-33	25-28	17-18•
Very Light	27-29	24-27	17.3-19.9
Fairly Light	26-28	22-24	14-17.3
Fairly Dark	25-26	19-22	13.2-14•
Very Light	22-23	19.8-21.7	14-16.1
Fairly Light	21-22	17.6-19.8	11.6-14
Fairly Dark	20-21	15.7-17.6	10.7-11.6•
Very Light	18.2-19.5	16.4-17.9	11.6-13.3
Fairly Light	17.7-18.2	14.6-16.4	9.6-11.6
Fairly Dark	16.9-17.0	13-14.6	9.2-9.6•
Very Light	15.3-16.2	13.8-15.1	10-11.5
Fairly Light	14.8-15.3	12.2-13.8	8.8-10
Fairly Dark	14.2-14.8	10.9-12.2	7.7-8.8•

DAYLIGHT LAMPS — For footcandles obtained using two daylight fluorescent lamps of 1800 lumens ea., multiply by .81.
*Minimum heights are for 1½ to 1 spacing ratio. Greater heights are for 1 to 1 spacing.
•Impractical — Room or maintenance conditions should be improved.
‡ROOM CONDITIONS — To determine conditions of walls and ceilings consult chart at bottom of page 18, Benjamin Catalog No. 26.
Prices do not include lamps.

**ROOM PROPORTIONS — Use "Favorable" figures where room is relatively broad — width about four times mounting height above floor.

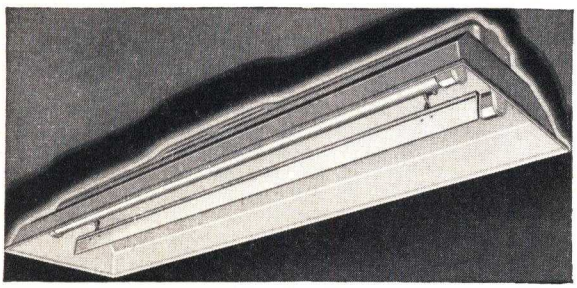
Use "Average" figures where the room is of average width — that is, where the width is about twice the mounting height above floor.

Use "Unfavorable" figures where the room is narrow — that is, where the width is about equal to the mounting height above floor.

Net Schedule 2F

BENJAMIN RLM "SHIELD-FLO 40" FLUORESCENT UNITS

Listed by Underwriters' Laboratories



This new line of highly efficient fluorescent lighting units is designed for use in installations where a greater degree of lamp shielding is desired than is provided by regular Benjamin "Stream-Flo 40" units.

The cleverly designed porcelain enameled longitudinal shield provides the same degree of shielding (27 degrees) for the far lamp as is provided by the cut-off of the reflector for the near lamp, when viewed from a crosswise position. The result is that both lamps are shielded from view at normal angles of vision. By shielding both lamps, direct glare is materially reduced and high intensities are obtainable without eye discomfort.

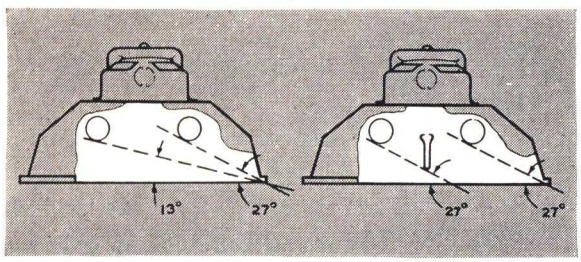
Such a unit has many industrial and commercial applications and is particularly desirable in locations where the nature of the work demands a high quality of illumination.

In general lighting installations, "Shield-Flo 40" fluorescent lamps provide lighting levels from 21 to 47 footcandles at normal mounting and spacing. These values are based on the use of 3500 degree white fluorescent lamps.

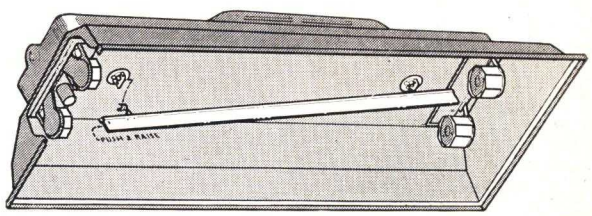
Units are ruggedly constructed with housings of heavy gauge steel finished in gray enamel. Closed-end porcelain enameled reflectors are finished white inside, gray outside and can easily be removed from the steel housing by a quarter turn of two hand operated "LOK-LATCH" reflector fasteners.

Exclusive Benjamin metal-clad "SPRINGLOX" safety type are incorporated in these units. "SPRINGLOX" Lampholders offer a decided advancement in the ease of lamping and relamping fluorescent units and provide positive insurance against lamps dropping out.

Chains can be attached to brackets provided. Rigid conduit suspension is possible by utilizing any one of the three pairs of conduit knockouts in top of housing.



The above illustration gives the comparative shielding angle of a "Stream-Flo 40" closed-end fluorescent lighting unit without a shield and the Benjamin "Shield-Flo 40" fluorescent unit. Note that the "Shield-Flo 40" unit (illustrated at right) gives a crosswise shielding angle of 27 degrees as compared to a 13 degree shielding angle afforded by the "Stream-Flo 40" unit (illustrated at left).



To place shield in position, the two small fingers of the movable suspension arm are placed into the holes provided in the far "LOK-LATCH" reflector fastener. The shield is then pushed forward compressing the spring, permitting the stationary suspension arm on the opposite end of the shield to be placed in position and held securely by the opposite "LOK-LATCH" fastener.

"Shield-Flo 40" for Two 40-Watt (48-inch) Fluorescent Lamps
Dimensions of Unit 53¾ inches long by 7⅛ inches high by 13⅛ inches wide

With Conventional Ballasts and Standard Lamp Starters ▲ ‡

Line Voltage†	WIRED WITH 6-INCH LEADS		WIRED WITH 6-FOOT CORD AND PLUG			
			TWO-WIRE		THREE-WIRE	
	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
110-125 V. 60 Cy.*	41662	$34.60	41662-C	$36.30	41662-P	$36.80
220-250 V. 60 Cy.*	41682	34.60	.....	.....	41682-P	36.80

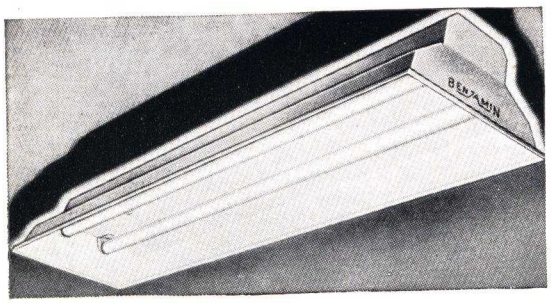
With Instant Starting Ballasts—No Lamp Starters Needed▲

110-125 V. 60 Cy.	41762	42.30	41762-C	44.00	41762-P	44.50

*50 Cycle ballast supplied, when specified, upon application.
†Can be supplied with 199-216 or 240-280 volt ballasts at 220-250 volt prices.
▲Overall power factor of lamps and auxiliary equipment is 95%.
‡Units can be supplied with non-blinking lamp starters, **$1.40** advance in list price for 2 lamps. Add suffix "W" when ordering.

BENJAMIN IMPROVED RLM "TYPE TX-40" FLUORESCENT UNITS

Listed by Underwriters' Laboratories



No. 49262

Improved "Type TX-40" fluorescent units now incorporate the exclusive Benjamin "Springlox" lampholder and have a one-piece porcelain enameled steel housing which incloses the control equipment and forms the sides of the reflector. The control equipment is mounted on the inside of the top of the housing. A removable porcelain enamel steel plate, which when placed in position, becomes the top of the reflector.

These units are especially suitable for locations with humid and damp atmospheres which cause water to be condensed on top of the fixture. They have a wide application in textile mills, paper mills, food plants and similar locations.

Units have two cast iron suspension flange assemblies with conduit stops, spaced on 47½-inch centers; tapped ½ inch standard, ¾ inch if specified. One is for dummy conduit stem and the other is for wire entrance.

The outside of the reflector is finished in two coats of porcelain enamel which makes the units resistant to rust from moisture. The inner reflecting surface has a ground coat and two coats of white porcelain enamel, reflection factor of 82%.

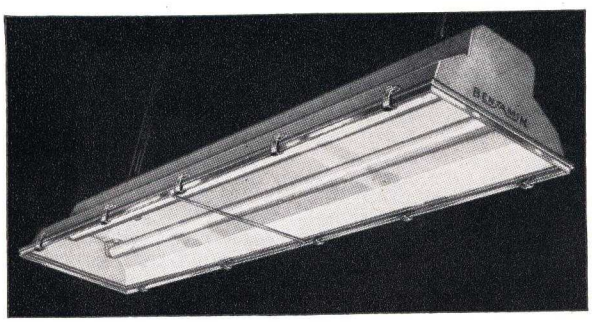
"Type TX-40" for Two (40 Watt) 48" Lamps — Wired with 6-Inch Leads

CONVENTIONAL BALLAST AND STANDARD STARTERS		CONVENTIONAL BALLAST AND NON-BLINKING STARTERS		INSTANT STARTING BALLAST NO STARTERS NEEDED		Line Voltage* (60 Cycles) 95% P. F.
Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	
49262	$39.00	49262W	$40.40	49292	$46.70	110-125V.
49282	39.00	49282W	40.40	.....	.....	220-250V.
"Type TX-40", for Three (40 Watt) 48-Inch Lamps						
49263	$49.00	49263W	$51.10	.....	.....	110-125V.
49283	48.00	49283W	50.10	.....	.....	220-250V.

*Can be supplied with 199-216 volt ballast at 220-250 volt prices. Units are 53¾" long, by 13⅛" wide, by 7 3/32" high.

IMPROVED "TYPE II-G SEALED FLO 40" DUST TIGHT FLUORESCENT UNITS

Listed by Underwriters' Laboratories



No. 49462-CL

Improved "Type II-G Sealed-Flo" Units now incorporate the exclusive Benjamin "Springlox" lampholder and are highest quality Fluorescent lighting equipment for locations requiring dust or vapor-tight lighting equipment. They satisfy all Underwriters' requirements for installation in Class II, Group G and Classes III and IV hazardous locations.

The bottom of the one-piece housing is securely sealed by a gasketed cover glass, mounted in a metal frame. This steel cover frame is hinged to the housing on one side and is held in contact on the opposite side by three, easily operated clamps.

The housing is porcelain enamel steel, finished in light gray, with a removable porcelain enameled steel plate. Lamp holders and ballast equipment are mounted inside the top of the housing for easy wiring. Under side of plate and sides of housing form the procelain enameled steel reflector.

Units are provided with two cast iron suspension flanges with conduit stops, spaced on 47½-in. centers, tapped ½-in. standard; ¾-in., if specified.

With Double Strength Grade "A" Clear Glass Cover

Cat. No.	List Price	BALLAST (95% POWER FACTOR)	Line Voltage† (60 Cycle)*
For Two (40-Watt) 48-Inch Fluorescent Lamps—Wired With 6-Inch Leads			
49462-CL	$64.00	Conventional 2-Lamp — Std. Starters	110-125V.
49462-CLW	65.40	Conventional 2-Lamp — Non-Blinking Starters	110-125V.
49482-CL	64.00	Conventional 2-Lamp — Std. Starters	220-250V.
49482-CLW	65.40	Conventional 2-Lamp — Non-Blinking Starters	220-250V.
49492-CL	71.70	Instant Starting 2-Lamp — No Starters	110-125V.
For Three (40-Watt) 48-Inch Fluorescent Lamps—Wired With 6-Inch Leads			
49463-CL	$74.00	Conventional 3-Lamp — Std. Starters	110-125V.
49463-CLW	76.10	Conventional 3-Lamp — Non-Blinking Starters	110-125V.
49483-CL	73.00	Conventional 3-Lamp — Std. Starters	220-250V.
49483-CLW	75.10	Conventional 3-Lamp — Non-Blinking Starters	220-250V.

†Can be supplied with 199-216 volt ballast at 220-250 prices. Units are 53¾" long, by 13⅛" wide, by 7⅞" high.

•Units can be supplied with 50 cycle ballasts on special order at prices quoted upon application.

All units can be supplied with heat and impact resisting tempered plate clear glass covers at $20.00 advance in list per unit.

To order drop "CL" suffix and substitute "TP." Prices do not include lamps.

Net Schedule 2F

BENJAMIN RLM "STREAM-FLO 100" FLUORESCENT LAMP UNITS

Listed by Underwriters' Laboratories

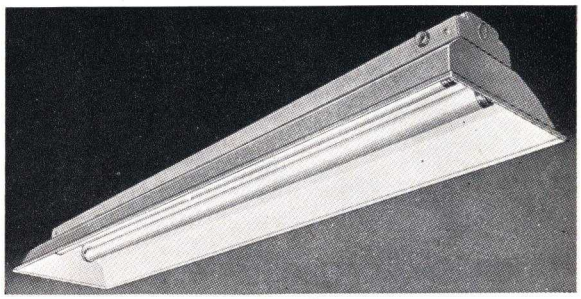
These units for 85 or 100-watt lamps considerably extend the field of fluorescent lighting applications by providing both higher levels of illumination for industry and adequate levels of lighting in locations requiring higher mounting and wider spacing.

Reflector design, high reflection factor (82%) of the porcelain enamel and other factors combine to give a minimum efficiency of 71% of the output of two 100-watt lamps. RLM "Stream-Flo 100" units provide twice as much light as the "Stream-Flo 40." Reflector shielding angle is 14°.

Units are easy to wire and install. Reflector is quickly detachable from the housing by a quarter turn of two, hand-operated "Lok-Latch" reflector fasteners.

The porcelain enameled steel reflector is finished white inside, light gray outside; housing finished in gray enamel. Units are supplied with certified two-lamp, 95-100% power factor ballast.

Chain brackets furnished at each end of housing.



No. N-61662

Rigid conduit suspension is possible by using any of three pairs of I.P. size knockouts (½" on 53½" and on 36" centers and ¾" on 50½" centers) provided in the housing.

"Stream-Flo 100" Unit for Two 85 or 100-Watt (60-inch) Fluorescent Lamps
Dimensions of Unit 65¼ inches long by 8 7/16 inches high by 16 inches wide

WITH CONVENTIONAL BALLASTS AND STANDARD LAMP STARTERS

Line Voltage* 60 Cycles† 95% P. F. Conventional Type Ballast	WIRED WITH 6-INCH LEADS		WIRED WITH 6-FOOT CORD AND PLUG			
			TWO-WIRE		THREE-WIRE	
	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
110-125 Volts	N-61662	$57.10	N-61662-C	$58.80	N-61662-P	$59.30
220-250 Volts	N-61682	57.10	.....	.....	N-61682-P	59.30

Non-Blinking type starters available at **$1.00** advance in list price per unit. Add suffix "W" when ordering.
*Can be supplied with 199-216 volt conventional type ballast at 220-250 volt prices.
†50 cycle ballasts supplied, when specified, prices quoted upon application.

TABLE FOR ESTIMATING AVERAGE FOOTCANDLES

Table shows average illumination from Diffuser unit with apertures* using two 60-inch 100-watt "white" lamps; for "daylight" lamps (3350 lumens), multiply by .8. Data based on 4-unit minimum installation and .75 maintenance factor. Mounting heights are to floor, footcandles on working plane 30 inches above floor.

RLM "STREAM-FLO 60" DIFFUSER WITH APERTURES AND TWO 60-INCH WHITE LAMPS (4200 LUMENS EACH)

Approx. Spacing	†Mounting Height Above Floor	Area Per Unit	Room‡ Conditions	Room Proportions** Favorable	Average	Unfavorable
				Average footcandles (minimum 4 units)		
9′x9′	8′6″ to 11′6″	81 Sq. Ft.	Very Light	52-44	45-50	35-40
			Fairly Light	50-52	40-45	31-35*
			Fairly Dark	47-50	36-40	26-31*
10′x10′	9′6″ to 12′6″	100 Sq. Ft.	Very Light	42-44	37-40	29-32
			Fairly Light	40-42	33-37	25-29*
			Fairly Dark	38-40	29-33	21-25*
11′x11′	10′0″ to 13′6″	121 Sq. Ft.	Very Light	35-36	30-33	24-27
			Fairly Light	33-35	27-30	21-24*
			Fairly Dark	31-33	24-27	18-21*
12′x12′	10′6″ to 14′6″	144 Sq. Ft.	Very Light	29-30	25-28	20-22
			Fairly Light	28-29	23-25	17.3-20*
			Fairly Dark	26-28	20-23	14.8-17.3*
13′6″x 13′6″	11′6″ to 16′0″	182 Sq. Ft.	Very Light	23-24	20-22	15.7-17.6
			Fairly Light	22-23	18-20	13.7-15.7*
			Fairly Dark	21-22	15.9-18	11.8-13.7*
15′x15′	12′6″ to 17′6″	225 Sq. Ft.	Very Light	18.8-19.3	16.3-17.9	12.7-14.3
			Fairly Light	17.8-18.8	14.6-16.3	11.1-12.7*
			Fairly Dark	16.8-17.8	12.9-14.6	9.5-11.1*

*IMPRACTICABLE—It is recommended that interior room conditions be improved or provision made for more frequent maintenance.

†Minimum heights shown are for spacing ratio of 1½ to 1. The greater heights are for 1 to 1 spacing.

‡ROOM CONDITIONS—To determine conditions of walls and ceilings consult chart on page 18 Benjamin catalog.

Prices do not include lamps.

*For units without apertures, multiply values by .97 ("fairly light" and "fairly dark" room conditions); by .96 ("very light" conditions).

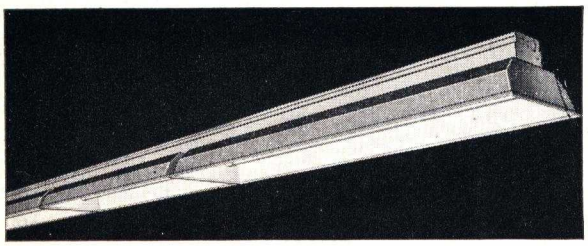
**ROOM PROPORTIONS — Use "Favorable" for broad rooms where width is about four times mounting height above floor.

Use "Average" where room width is about twice the mounting height above floor.

Use "Unfavorable" for narrow rooms where width is about equal to mounting height above floor.

Net Schedule 2F

NEW BENJAMIN RLM "LITE-LINE 40" SYSTEMS



The basis of these new Benjamin "Lite-Line 40" Systems are the double reflector channels listed below. These heavy gauge steel channels are joined end to end to form a continuous line by the use of a rigid, steel coupling.

The single reflector steel channels are usually used to fill out at the ends of lines. The ends of the channels are closed by a steel end cap. A complete line of sliding hangers is available to meet every mounting condition.

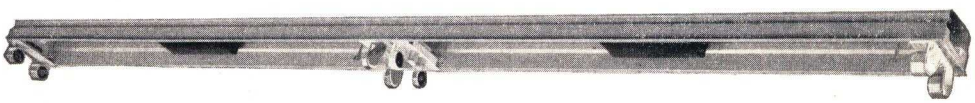
New Benjamin safety-type lampholders hold the lamps securely and speed lamping.

Reflectors are attached or removed by a quarter turn of two hand-operated, adjustable fasteners.

Steel channels are of new streamlined construction. They are wired and have 6-inch leads.

Reflectors are porcelain enameled steel; exterior finish is gray; interior surfaces are white.

CHANNEL SECTIONS COMPLETE WITH CONTROL EQUIPMENT



Type E Wired Channel Sections for Two Lamp Open and Closed-End 13⅛ Inch Width Reflectors

Line Voltage (60 cycle) Std. Ball. and FS-4 Starters†	Power Factor	Double Reflector Channels 104⅜" Length (5" Lamp Spacing) Cat. No.	List Price	No. of Lps.	Twin Ballasts	Single Reflector Channels 50⅜" Length (5" Lamp Spacing) Cat. No.	List Price	No. of Lps.	Twin Ballasts
110-125 V.	95%	18854	$39.50	4	2-2 Lamp	18454	$19.20	2	1-2 Lamp
220-250 V.	95%	18856	39.50	4	2-2 Lamp	18456	19.20	2	1-2 Lamp
110-125 V.*	95%	18954	54.90	4	2-2 Lamp	18554	26.90	2	1-2 Lamp
Type E Wired Channel Sections for Three Lamp Open and Closed-End 13⅛ Inch Width Reflectors									
110-125 V.	95%	18857	$57.20	6	3-2 Lamp	18457	$29.20	3	1-3 Lamp
220-250 V.	95%	18859	57.20	6	3-2 Lamp	18459	28.20	3	1-3 Lamp

Type A Wired Channel Sections for Two Lamp Open-End (Narrow) 11½ Inch Width Reflectors

Line Voltage (60 cycle) Std. Ball. and FS-4 Starters†	Power Factor	Double Reflector Channels 101⅜" Length (3½" Lamp Spacing) Cat. No.	List Price	No. of Lps.	Twin Ballasts	Single Reflector Channels 50⅜" Length (3½" Lamp Spacing) Cat. No.	List Price	No. of Lps.	Twin Ballasts
110-125 V.	95%	18154	$38.90	4	2-2 Lamp	18354	$19.00	2	1-2 Lamp
220-250 V.	95%	18156	38.90	4	2-2 Lamp	18356	19.00	2	1-2 Lamp
110-125 V.*	95%	18254	54.30	4	2-2 Lamp	18654	26.70	2	1-2 Lamp

*Instant Starting Type. †Non-Blinking Starters supplied in place of standard starters when specified, at an advance in price.

PORCELAIN ENAMELED REFLECTORS AND CHANNEL FITTINGS

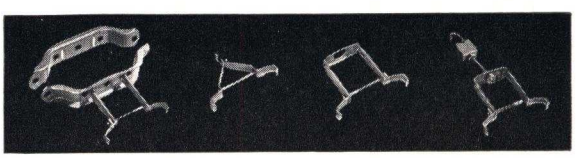


RLM REFLECTORS

Cat. No.	List	Description
8462	$12.00	Closed-End 2 and 3 Lamp, 13⅛" wide
8453	7.60	Open-End 2 and 3 Lamp, 13⅛" wide
8452	7.20	Open-End 2 Lamp, 11½" wide

CHANNEL FITTINGS

Cat. No.	List	Description
18426	$1.10	Channel Coupling for all Closed-End Reflectors and 13⅛" Open-End Reflector
18436	.90	Channel Coupling for 11½" Open-End Reflector
18425	.40	End Cap for all Channels



SUSPENSION FITTINGS

Cat. No.	List	Description
18440	$0.60	Sliding Hanger for ½" Conduit
18450	.60	Sliding Hanger for Chain Support
18472	1.20	Sliding Hanger for Messenger Cable
18430	.60	Sliding Hanger for ⅜" Rod or $\frac{5}{16}$" Screw
*18431	.50	Offset Ceiling Strap for ⅜" Rod or $\frac{5}{16}$" Screw
*18432	.50	Flat Cross Strap for ⅜" Rod or $\frac{5}{16}$" Screw
18441	.50	Ceiling Strap for ½" Conduit

*Can be used independently as an additional means of mounting where a non-sliding type suspension meets requirements.

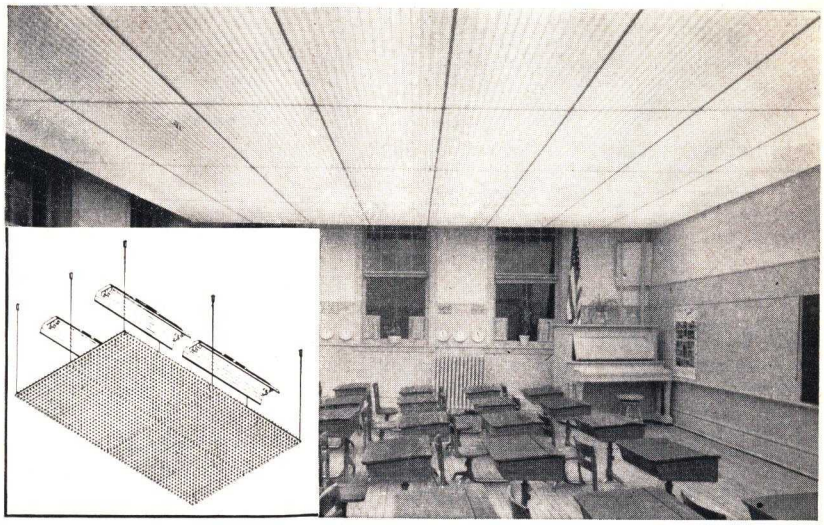
BENJAMIN "SKY-GLO" LUMINOUS LOUVER SYSTEM

Luminous Louverall Lighting

The Benjamin "Sky-Glo" Louver System is the latest development in louverall lighting. Designed for offices, stores, show windows and other commercial lighting, it is the answer to the Lighting Plan that calls for Inconspicuous Lighting. This system of translucent louvers now makes possible 100 or more foot-candles of uniform, well diffused, comfortable and inconspicuous lighting.

The "Sky-Glo" System completely conceals the lighting units as well as unsightly ducts, pipes, beams, etc.; substituting, at reasonable cost, a clean translucent ceiling of low brightness and pleasing architectural pattern.

Two types of louver channel supports are now available — the "U" shape which is designed for those who desire an even more inconspicuous channel framework.



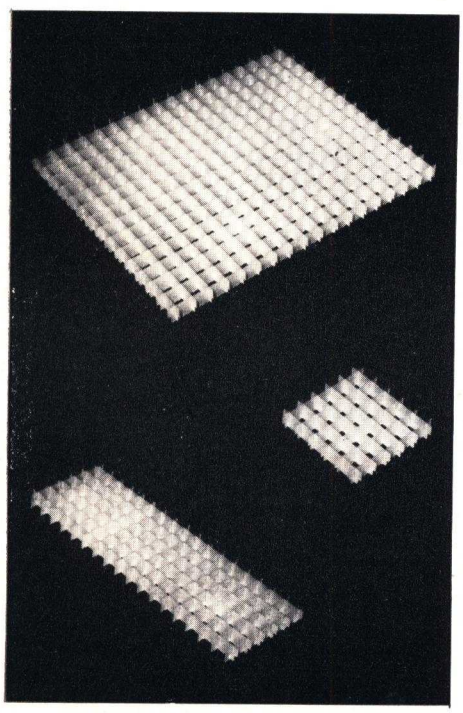
To obtain the high levels of illumination now made practical by this system, Benjamin RLM "Twin-Flo 40" and "Triple-Flo 40" individual fluorescent units, or Benjamin "Lite-Line 40" continuous fluorescent system are recommended.

TRANSLUCENT "VINYLITE" LOUVER SECTIONS

The "Sky-Glo" louvers of Vinylite have a transmission factor of 71 per cent and a reflection factor of 19 per cent. The translucent louver strips have a permanent mat finish which will not discolor or peel. The openings in the louver sections are 2″ long, 2″ wide, and 2″ deep and afford crosswise and lengthwise shielding angles of 45 degrees.

The "Sky-Glo" System consists of standardized stock louver sections, "V" and "U" shaped supporting channels, channel couplings and suspension rod assemblies to simplify the layout and installation of the system. Louver sections are easily removed for maintenance and cleaning by lifting them from their channels and bringing them thru their channel opening.

The louver sections have various notching arrangements; notched sides rest on the channel framework; sides not notched butt against adjacent louver sections.



Notched on 4 Sides*			Notched on 3 Sides†		
Louver Section	Cat. No.	List Price	Louver Section	Cat. No.	List Price
3′ x 4′	40595	$33.60			
3′ x 3′	40528	25.20	3′ x 3′	40527	$25.20
2½′ x 3′	40524	21.00	2½′ x 3′ (Notched 1 long, 2 short sides)	40523	21.00
2′ x 4′	40594	22.40			
2′ x 3′	40598	18.00	2′ x 3′ (Notched 2 long, 1 short side)	40537	18.00
			2½′ x 2′ (Notched 2 long, 1 short side)	40593	15.20
2′ x 2′	40592	11.20			
1′ x 4′	40591	11.20			
1′ x 3′	40534	9.00	1′ x 3′ (Notched 2 long, 1 short side)	40531	9.00
			1′ x 2½′ (Notched 2 long, 1 short side)	40513	8.00
1′ x 2′	40508	6.60	1′ x 2′ (Notched 1 long, 2 short sides)	40507	6.60
1′ x 1′	40504	3.30			

*Used with "V" shape and "U" shape channel frameworks.

†Used with "U" shape channel framework only.

Net Schedule 2-F

BENJAMIN "SKY-GLO" INSTALLATION FITTINGS
"V" SHAPE AND "U" SHAPE SUPPORTING CHANNELS

Cat. No. 40551





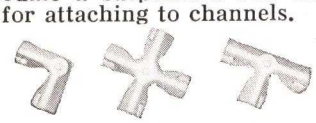
Cat. No. 40529

These supporting channel lengths are used with the couplings and other fittings below to make up the supporting framework on which the "Sky-Glo" louver sections rest. A CHOICE of "V" shape or "U" shape supporting framework is available. The new "V" shape channel is designed for those who desire a supporting framework which is even less conspicuous than the "U" shape. Both styles of framework accommodate standard louver sections which are notched on four sides. The "U" shape framework also takes the louver sections which are notched on three sides. All channels are of 20 gauge steel finished in baked white enamel.

"V" Shape	Cat. No.	List Price	"U" Shape	Cat. No.	List Price
46 3/8" Channel	40529	$1.10	71" Channel	40555	$1.60
34 3/8" Channel	40528	.80	59" Channel	40553	1.20
28 3/8" Channel	40527	.70	47" Channel	40558	1.10
22 3/8" Channel	40526	.60	35" Channel	40551	.80
10 3/8" Channel	40525	.40	29" Channel	40556	.70
.....	.....	.....	23" Channel	40554	.60
.....	.....	.....	11" Channel	40550	.40

"V" SHAPE AND "U" SHAPE RIGID CHANNEL COUPLINGS

Rigid type "X", "T" and "L" couplings for joining channel lengths are each provided with a 7/32" hole to accommodate a suspension rod and 3/16" holes for attaching to channels.

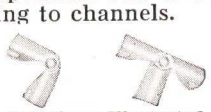


"V" Shape Illustrated

"V" Shape (Rigid)	Cat. No.	List Price	"U" Shape (Rigid)	Cat. No.	List Price
"L" Coupling	40517	$0.40	"L" Coupling	40560	$0.40
"T" Coupling	40518	.40	"T" Coupling	40561	.40
"X" Coupling	40519	.40	"X" Coupling	40562	.40

"V" SHAPE AND "U" SHAPE ADJUSTABLE CHANNEL COUPLINGS

Adjustable "L" and "T" couplings, for use in irregularly shaped ceiling areas, also have a 7/32" hole to accommodate a suspension rod and 3/16" holes for attaching to channels.

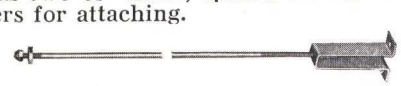


"V" Shape Illustrated

"V" Shape (Adjustable)	Cat. No.	List Price	"U" Shape (Adjustable)	Cat. No.	List Price
"L" Coupling	40520	$0.60	"L" Coupling	40563	$0.60
"T" Coupling	40521	.60	"T" Coupling	40564	.60

SUSPENSION ROD ASSEMBLIES AND ROD COUPLING
Common to Both "V" and "U" Shape Support Systems

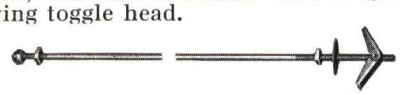
The 3/16" suspension rods with ceiling strap are for surface attachment of framework to ceiling. The ceiling strap has two 13/64" holes, spaced on 1 1/8" centers for attaching.



Rod Assembly with Ceiling Strap

Description	Cat. No.	List Price
27" Rod Assembly with Ceiling Strap	40580	$ 0.70
36" Rod Assembly with Ceiling Strap	40581	.80
48" Rod Assembly with Ceiling Strap	40582	.90
60" Rod Assembly with Ceiling Strap	40583	1.00

For attachment of channel framework to ceilings of hollow construction, rods are available with a spring wing toggle head.



Rod Assembly with Toggle Head

30" Rod Assembly with Toggle Head	40600	$ 0.80
36" Rod Assembly with Toggle Head	40601	.90
48" Rod Assembly with Toggle Head	40602	1.00
60" Rod Assembly with Toggle Head	40603	1.10

Rod Coupling

Rod Coupling (1-inch long; threaded thru)	40587	$ 0.20

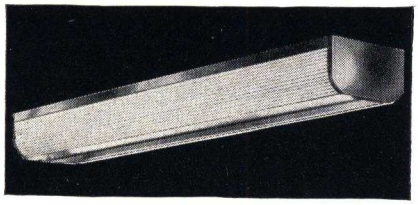
Where extra long suspension rods are necessary, a brass rod coupling is available for joining together two rods.

Net Schedule 2-F

PITTSBURGH PERMAFLECTOR FLUORESCENT LUMINAIRES

For Surface or Suspension Mounting . . . Individually or in Continuous Rows

THE JEFFERSON—A-1000 SERIES

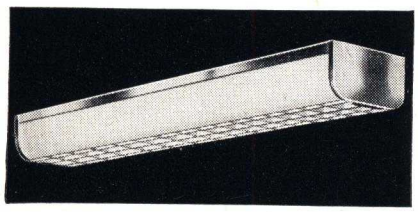


The distinctive appearance of The Jefferson is enhanced by curved Skytex Satinol glass panels. Longitudinal baffles provide added shielding. The entire Pittsburgh Permaflector Presidential line is distinctively, attractively styled and in good taste.

Cat. No.	No. of Lamps	Length In.	Width In.	Depth In.	Shpg. Wt.Lbs.	Price Each
A-1240	2-40 W	48⅛	10 7/16	5 7/16	38	**$46.66**
A-1340	3-40 W	48⅛	10 7/16	5 7/16	42	**62.16**
A-1440	4-40 W	48⅛	14	5 7/16	55	**72.98**

Surface or suspension mounted, individually or in continuous rows. Hanger AH-202, list: **$4.88.**

THE TYLER—A-7000 SERIES

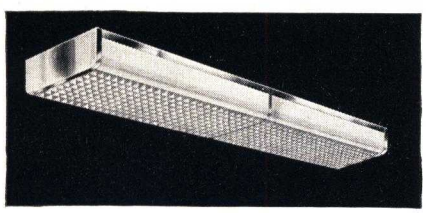


The Tyler combines sound light engineering with functional design. Side Panels are curved Skytex glass in Satinol finish. Bottom is egg-crate louver, hinged for easy maintenance. Low initial cost, low installation and maintenance cost.

Cat. No.	No. of Lamps	Length In.	Width In.	Depth In.	Shpg. Wt.Lbs.	Price Each
A-7240	2-40 W	48⅛	10 7/16	5 7/16	39	**$53.20**
A-7340	3-40 W	48⅛	10 7/16	5 7/16	42	**68.72**
A-7440	4-40 W	48⅛	14	5 7/16	56	**79.56**

Surface or suspension mounted, individually or in continuous rows. Hanger AH-202, list: **$4.88.**

THE WASHINGTON—B-7000 SERIES

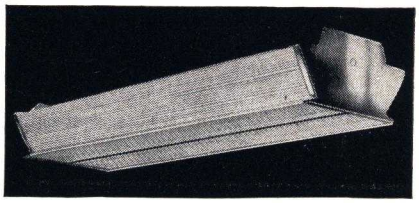


Another series of 96-inch Slimline luminaires for surface or pendant mounting, individually, or in rows. Two-piece Skytex Satinol glass panels and egg-crate louver bottom extend the full length of the unit.

Cat. No.	No. of Lamps	Lgth. In.	Wdth. In.	Dpth. In.	Shpg. Wt.Lbs.	Price Each
B-7396-2	3-40 W	96	10 7/16	5 7/16	150	**$129.62**
B-7496-2	4-40 W	96	14	5 7/16	158	**145.22**

Surface or suspension mounted, individually or in continuous rows. Hanger AH-202, list: **$4.88.**

THE VANBUREN—A-2000 SERIES

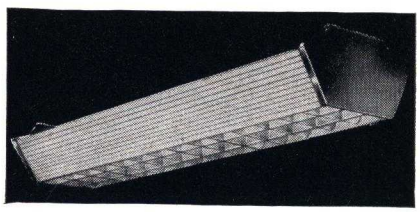


Contrasting side-panels of Skytex Satinol glass and Skytex clear-glass bottom-panels give sparkling and efficient beauty. T-bar center support for bottom panels. Reflecting surfaces are heat-resistant, baked-on enamel bonded to steel base.

Cat. No.	No. of Lamps	Length In.	Width In.	Depth In.	Shpg. Wt.Lbs.	Price Each
A-2240	2-40 W	48⅛	15⅞	7¾	53	**$43.66**
A-2340	3-40 W	48⅛	15⅞	7¾	57	**55.30**
A-2440	4-40 W	48⅛	15⅞	7¾	59	**58.62**

Surface or suspension mounted, individually or in continuous rows. Hanger AH-202, list: **$4.88.**

THE WILSON—A-4000 SERIES

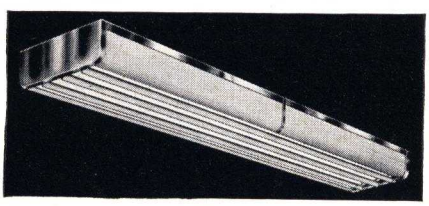


Iridescent Linex Satinol glass side panels and fully hinged egg-crate louver bottom assure well-shielded and efficient illumination as well as easy accessibility for maintenance. Engineered for lasting performance — maximum efficiency.

Cat. No.	No. of Lamps	Length In.	Width In.	Depth In.	Shpg. Wt.Lbs.	Price Each
A-4240	2-40 W	48⅛	15⅞	7¾	48	**$53.62**
A-4340	3-40 W	48⅛	15⅞	7¾	51	**66.76**
A-4440	4-40 W	48⅛	15⅞	7¾	56	**69.50**

Surface or suspension mounted, individually or in continuous rows. Hanger AH-202, list: **$4.88.**

THE LINCOLN—B-1000 SERIES



The Lincoln is easily installed, simply maintained 96-inch Slimline unit for surface or pendant mounting, individually or in continuous rows. Two-piece, curved Skytex Satinol glass panels extend the length of the unit.

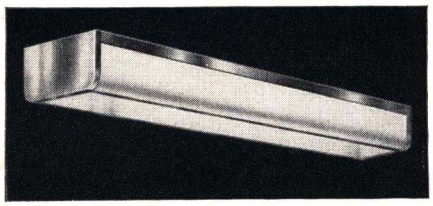
Cat. No.	No. of Lamps	Lgth. In.	Wdth. In.	Dpth. In.	Shpg. Wt.Lbs.	Price Each
B-1396-2	3-40 W	96	10 7/16	5 7/16	148	**$113.52**
B-1496-2	4-40 W	96	14	5 7/16	155	**127.72**

Surface or suspension mounted, individually or in continuous rows. Hanger AH-202, list: **$4.88.**

PITTSBURGH PERMAFLECTOR FLUORESCENT LUMINAIRES

For Surface or Suspension Mounting . . . Individually or in Continuous Rows

THE GRANT—A-8000 SERIES



The completely glass enclosed Grant is outstanding in appearance and style. Mounted individually each unit is distinctive, yet it is ideal for continuous row installation. May be surface mounted or pendant mounted.

Cat. No.	No. of Lamps	Length In.	Width In.	Depth In.	Shpg. Wt. Lbs.	Price Each
A-8240A	2-40W	48⅛	10 7/16	5 7/16	41	**$52.50**
A-8340A	3-40W	48⅛	10 7/16	5 7/16	44	**68.02**
A-8440A	4-40W	48⅛	14	5 7/16	45	**80.10**

Surface or suspension mounted, individually or in continuous rows. Hanger AH-202, list: **$4.88.**

THE DRAMATIZER

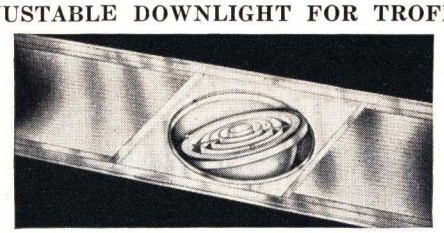


Can be installed in-line or on the ends of the "Jefferson" A-1000, the "Tyler" A-7000, the "Grant" A-8000-A, the "Lincoln" B-1000 and the "Washington" B-7000 luminaires. Ideal for all spotlighting, and can be rotated in a complete circle.

Cat. No.	Use	Length In.	Width In.	Depth In.	Shpg. Wt. Lbs.	List Price
A-178-10	(*)	12	10 7/16	5 7/16	8	**$26.26**
A-178-14	(†)	12	14	5 7/16	10	**26.90**
A-178-1414	(‡)	14	14	5 7/16	14	**31.50**

*In line, 2 and 3 lamp luminaires. †In line, 4 lamp luminaires. ‡End, corner, "T", Cross-over.

ADJUSTABLE DOWNLIGHT FOR TROFFER

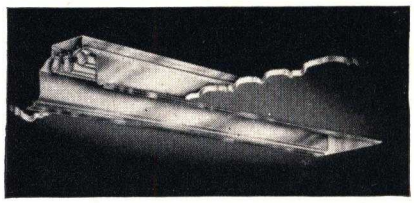


Designed for recessed installation with the Series 40 Universal Troffers, this downlight is ideal for spotlighting. Can be rotated in a complete circle and fixed in any position up to 30 degrees from the vertical axis.

Cat. No.	Use	Size, Inches L	W	D	Shpg. Wt. Lbs.	List Price
AF-200-EL	In line	12	12	11¼	16	**$34.38**
PF-200-EL	or End	12	14	11¼	16	**34.38**
PAF-200-X	Cross	12	12	11½	16	**34.38**
AF-200-C	Corner	12	12	11¼	16	**34.38**
PF-200-C	Corner	12	13	11¼	16	**34.38**
AF-200-T	"T"	12	12	11½	16	**34.38**
PF-200-T	"T"	12	12	11¼	16	**34.38**
AF-200-EL	Indiv.	12	14	11¼	16	**34.38**
PF-200-EL	Indiv.	14	14	11¼	16	**34.38**

Order "AF" for T-Bar acoustical ceilings; "PF" for plaster and other ceilings.

40 SERIES UNIVERSAL TROFFER



Modern in appearance and design, high in efficiency, the Universal Troffer is built for long life and easy installation. The units can be mounted individually, in continuous rows, or patterns in acoustical, plaster and other types of ceilings. The "AF" Unit is equipped with a snap-on flange for attachment to acoustical ceiling "T" Bars. The "PF" Unit is used for plaster ceilings and lends itself readily to all other types of ceiling construction. Troffer is wired complete, ready to install, less lamps.

Cat. No.	No. of Lamps	Length In.	Width In.	Depth In.	Shpg. Wt. Lbs.	List Price
AF-140-E	1-40W	48	12	8¾	32	**$34.12**
PF-140-E	1-40W	48	14	8¾	32	**34.12**
AF-240-E	2-40W	48	12	8¾	36	**39.12**
PF-240-E	2-40W	48	14	8¾	36	**39.12**
AF-340-E	3-40W	48	12	8¾	55	**50.68**
PF-340-E	3-40W	48	14	8¾	55	**50.68**

"AF" for T-Bar acoustical ceilings; "PF" for plaster and other ceilings.

EGG CRATE LOUVER ASSEMBLY

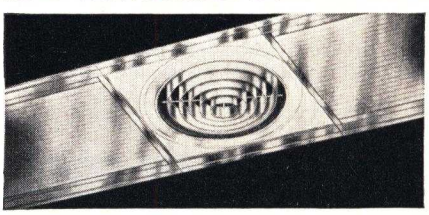
Hinged egg-crate louver bottom assembly for either of the above 40 Series Troffers. No. **ELE-12-40**.....**$12.60**

ALBA-LITE GLASS ASSEMBLY—Distinctive Alba-Lite Glass hinged frame assembly for all 40 Series Troffers listed above. No. **GE-12-40**.....**$11.02**

BAFFLE-LOUVER ASSEMBLY—Transverse baffle in hinged frame assembly for all of the above 40 Series Troffers. No. **LE-12-40**.....**$ 7.48**

CORNING LENS PANEL ASSEMBLY—Flat Corning Lens panels in hinged frame assembly for all 40 Series Universal Troffers. No. **PE-12-40**.....**$28.12**

FIXED DOWNLIGHT FOR TROFFER



For recessed mounting with Universal Troffers in end, in-line, corner "T", cross-over and individual applications — equipped with a silvered-glass Permaflector and concentric louver bottom.

Cat. No.	Use	Size, Inches L	W	D	Shpg. Wt. Lbs.	List Price
AF-205-EL	In-Line	12	12	11¼	16	**$25.00**
PF-205-EL		12	14	11¼	16	**25.00**
AF-205-EL	End	12	12	11¼	16	**25.00**
PF-205-EL		13	14	11¼	16	**25.00**
PAF-205-X	Cross	12	12	11¼	16	**25.00**
AF-205-C	Corner	12	12	11¼	16	**25.00**
PF-205-C		13	13	11¼	16	**25.00**
AF-205-T	"T"	12	12	11¼	16	**25.00**
PF-205-T		12	13	11¼	16	**25.00**
AF-205-EL	Indiv.	12	12	11¼	16	**25.00**
PF-205-EL		14	14	11¼	16	**25.00**

"AF" for T-Bar acoustical ceilings, "PF" for plaster and other ceilings.

SYLVANIA FLUORESCENT LIGHTING FIXTURES

THE HF LINE



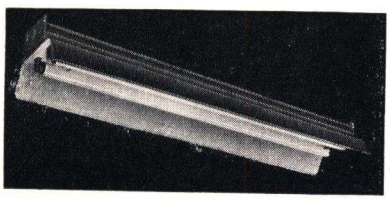
HF-100: (illustrated above). Complete with two 40-watt T-12 Sylvania fluorescent lamps, white or daylight.

HF-150: Similar to above, but complete with three 40-watt T-12 Sylvania fluorescent lamps, white or daylight.

HF-235: Complete with two 85-watt T-17 Sylvania fluorescent lamps, white or daylight.

Fixture	Overall Dimens. Length	Width	Height	Total Watts	Shpg. Wt.Lbs.	Price Each
HF-100	49¾	13⅜	6 13/16	100	28	**$26.04**
HF-150	49¾	13⅜	6 13/16	150	32	**38.02**
HF-235	61½	16 13/16	8 1/16	235	46	**51.56**

THE HFF LINE

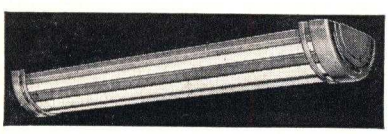


Supplied with single or double reflector length top housings. Designed primarily for continuous row installations.

Steel reflector, with high-temperature-baked enamel reflecting surface. Sylvania fluorescent lamps, high power factor auxiliaries, Sylvania starters and wiring devices. Outside finish, French gray.

Cat. No.	Lamps	Dimens., Ins. L.	W.	H.	Watt	Shpg. Wt.Lbs.	Price Each
HFF-240	2-40W	50	11¼	6 13/32	100	36	**$27.19**
HFF-440	3-40W	100	11¼	6 13/32	200	61	**53.75**

UNSHIELDED FIXTURES



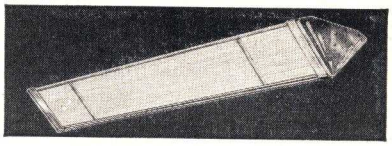
An unshielded fixture mounting four lamps, ideally suited where lower surface brightness of shielded fixture is less important and where the type of work does not involve a difficult seeing task over a prolonged period. Complete with four 40-watt, T-12 Sylvania fluorescent lamps, white or daylight. White Miracoat reflector and end caps in satin aluminum finish.

Fixture	Overall Dimens. Length	Width	Height	Total Watts	Shpg. Wt.Lbs.	Price Each
C-200*	49½	11⅛	5 7/16	200	37	**$47.60**

*Stem and canopy also available for pendant mounting, add **$4.06.**

SYLVANIA FLUORESCENT LIGHTING FIXTURES

SHIELDED FIXTURES

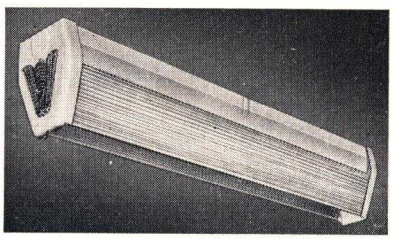


Generally employed where high overall lighting efficiency is required, with low surface brightness; or where the more decorative effect of this fixture is desirable.

Complete with four 40-watt, T-12 Sylvania fluorescent lamps, white or daylight. White enamel reflector. Ribbed diffusing panels.

Fixture	Overall Dimens. Length	Width	Height	Total Watts	Shpg. Wt.Lbs.	Price Each
C-201	49¼	13¾	6½	200	47	**$57.92**

PEABODY—CSG SERIFS SINGLE LAMP UNITS



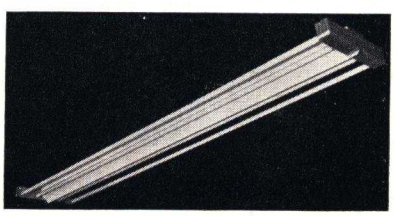
The CSG series is recommended for general space lighting in such applications as small stores, offices, library bookstacks, etc.

Since these fixtures are adapted from the basic single lamp fixtures CS-120 and CS-140, these last mentioned units may be changed over to the CSG types by means of conversion sets which consist of the glass panels and end caps, (part numbers CS-12 and CS-14).

Single Lamp Fluorescent Units Cat. No.	Lamps	Length Inches	Price Each	Conversion Sets Cat. No.	Price Each
CSG-120	1-20W	24	**$12.33**	**CS-12**	**$3.08**
CSG-140	1-40W	48	**16.73**	**CS-14**	**4.69**

Corner Joiner, No. **CSJA-2**.....each **$1.19**

T-8 SLIMLINE FIXTURE CSL-496



The CSL-496 Slimline unit employs four 96-inch T-8 lamps. Operating on two 200 milliampere dual-lamp ballasts, this fixture features an instant start unit. For surface, pendant or continuous mounting. Length 96 7/16 inches; width 15 7/16 inches; height 4½ inches.

Price, **CSL-496**.....**$84.58; CSL-496J**.....**$83.65**

SYLVANIA FLUORESCENT LIGHTING FIXTURES

COMMERCIAL TYPE

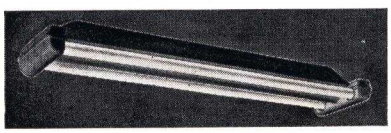
110-125 Volts, 60 Cycle, A.C.

(Other Voltages and Frequencies Available)

Fixtures may be installed directly against the surface of the ceiling or pendant mounted with stem and canopy assembly, and they may be joined end-to-end with like units to form a continuous row of light.

Each fixture complete with Sylvania Fluorescent Lamps, High Power Factor Auxiliaries and Sylvania COP-40 Starters.

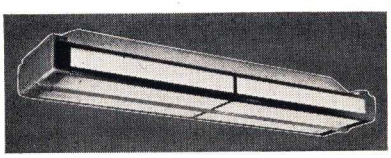
UNSHIELDED FIXTURES



The C-240 is an unshielded fixture mounting two 40-watt Sylvania fluorescent lamps. The C-440 is the same as the C-240 except mounting four 40-watt Sylvania fluorescent lamps. Both fixtures have reflector in high temperature baked white enamel; top housing and end caps in satin aluminum finish.

	Overall Dimensions			Total	Wt.	Price
Fixture	Length	Width	Height	Watt	Lbs.	Each
C-240	49⅛	10½	5 9/16	100	27	**$30.63**
C-440	49⅛	14⅝	5 9/16	200	39	**48.77**

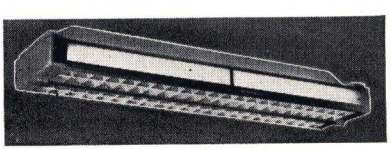
GLASS SHIELDED FIXTURES



The CG-240 is a glass shielded fixture mounting two 40-watt Sylvania fluorescent lamps. The CG-440 is the same as the CG-240 except mounting four 40-watt Sylvania fluorescent lamps. Both fixtures have reflector in high temperature baked white enamel; top housing frame assembly in satin aluminum finish.

	Overall Dimensions			Total	Wt.	Price
Fixture	Length	Width	Height	Watt	Lbs.	Each
CG-240	49⅛	11¾	7⅛	100	50	**$42.60**
CG-440	49⅛	15½	7⅛	200	69	**65.71**

LOUVRE AND GLASS PANEL SHIELDED TYPES



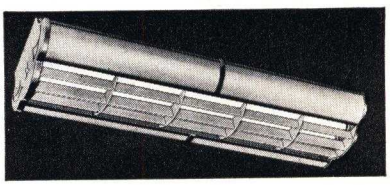
The CL-240 is a Louvre and Glass Panel shielded fixture mounting two 40-watt Sylvania fluorescent lamps. The CL-440 is the same as the CL-240 except mounting four 40-watt Sylvania fluorescent lamps. Both fixtures have reflector and louvre in high temperature baked white enamel; top housing and frame assembly in satin aluminum finish.

	Overall Dimensions			Total	Wt.	Price
Fixture	Length	Width	Height	Watt	Lbs.	Each
CL-240	49⅛	11¾	7⅛	100	48	**$45.73**
CL-440	49⅛	15½	7⅛	200	64	**68.10**

SYLVANIA FLUORESCENT LIGHTING FIXTURES

COMMERCIAL TYPE

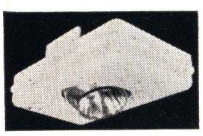
PLASTIC AND LOUVRE SHIELDED FIXTURE



The C-205 is a deluxe fixture employing four 40-watt lamps, and incorporating several exclusive features of style and construction. Though highly decorative, it is strictly functional in design and is ideally suited for surface or pendant mounting. The louvres and plastic diffusing panels on either side, provide excellent shielding of lamps. The entire shielding assembly is hinged to swing down for easy lamp replacement and cleaning. The C-205J is the same as the C-205 only designed for continuous row surface mounting.

	Overall Dimensions			Total	Wt.	Price
Fixture	Length	Width	Height	Watt	Lbs.	Each
C-205	49 9/16	14	7¼	200	50	**$59.38**
C-205J	49 9/16	14	7¼	200	50	**58.54**

COMMERCIAL SPOTLIGHT FIXTURE



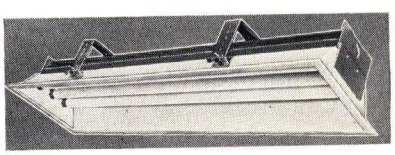
Fixture is a complete unit and designed for mounting directly against the surface of the ceiling or for pendant mounting with stem and canopy assembly. The fixture is designed to be installed individually or in a continuous row with either the C-240 or C-440 type fixtures.

Complete with Sylvania 150-watt PAR-38 Pyrex spotlight or floodlight lamp. Available in 115, 120 and 125 volt circuits.

Finished in satin aluminum.

	Overall Dimensions			Wt.	Price
Fixture	Length	Width	Height	Lbs.	Each
CP-150	14⅝	10½	7⅜	7	**$12.83**

CST SERIES RECESSED TROFFERS



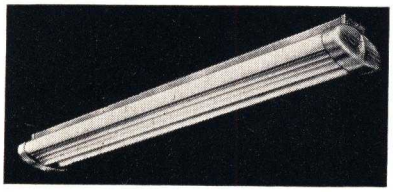
Recessed unshielded fluorescent fixtures for individual or continuous row mounting. COP-40 Starters standard. Plaster frames, hanging, joining and shielding accessories available.

Cat. No.	Sections	Lamps	Shpg. Wt. Lbs.	Price Each
CST-144	4 ft.	1-40 watt	22	**$25.60**
CST-248	8 ft.	2-40 watt	44	**43.60**
CST-244	4 ft.	2-40 watt	27	**30.48**
CST-448	8 ft.	4-40 watt	54	**60.35**
CST-344	4 ft.	3-40 watt	32	**42.06**
CST-648	8 ft.	6-40 watt	64	**77.60**

The fixtures listed above do not include any hanging, joining or other accessories. These must be ordered separately. Information on request.

SYLVANIA FLUORESCENT LIGHTING FIXTURES

No. C-247 UNSHIELDED ALL-METAL UNIT



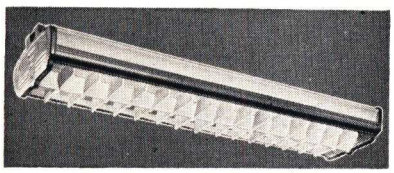
The C-247 is the unshielded companion to the CL-247. Both are constructed on the same chassis design, so that their parts are interchangeable.

Suitable for public buildings, stores and small shops where brightness contrasts are of secondary interest and the seeing task is not severe or prolonged. Uses two 40-watt lamps. High power factor auxiliaries. Standard replaceable type starters.

Price, **C-247** Unshielded—for individual Surface Mounting .....each **$24.30**

Also available for individual pendant mounting, add **$2.95.**

No. CL-247 LOUVER SHIELDED UNIT

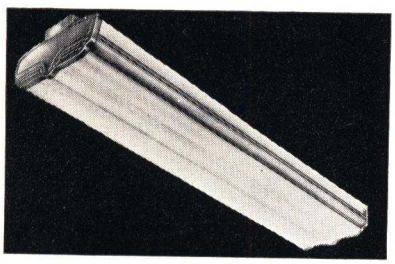


An all-metal unit, including the shielding, which means that there is no plastic or glass to keep clean. Shielding and top housing are aluminum painted for low surface brightness — while the reflector and baffles are finished in white Miracoat. Uses two 40-watt lamps. High power factor auxiliaries. Standard replaceable type starters.

Price, **CL-247** for individual surface mounting .....each **$34.13**

For individual pendant mounting, add **$2.95.**

No. CP-247 PLASTIC SHIELDED UNIT



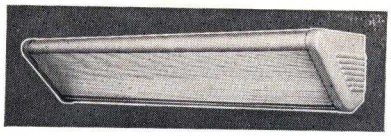
The CP-247 is the plastic shielded version of the bare lamp unit, C-247. It is also the companion unit to the CL-247 which is the louvered shielded version of this fixture. Especially designed for use where well-diffused light is desirable. These factors combined with skillful designing make the CP-247 especially well adapted for use in smart shops, offices, conference rooms and class rooms. Uses two 40-watt lamps. High power factor auxiliaries. Standard replaceable type starters. Individually packed.

Price, **CP-247** Plastic Shielded Unit for individual Surface Mounting.....each **$36.81**

Also available for individual pendant mounting, add **$2.93.**

SYLVANIA FLUORESCENT LIGHTING FIXTURES

BEVERLY RW-220—SHIELDED



Designed as a compact low-cost general utility fixture, the Beverly is nevertheless very attractively styled, with its streamlined metal end caps, white finish, and diffusing panels of frosted, ribbed glass. With its two 20-watt lamps, the RW-220 supplies both direct and indirect lighting.

These fixtures can be mounted either on a standard outlet box, or plugged in with an extension cord. The plug-in type thus places the light wherever it may be needed for a specific job.

The Beverly has a great variety of uses. In the home, it is suitable for kitchens, bedrooms, bathrooms, workshops, breakfast nooks and pantries.

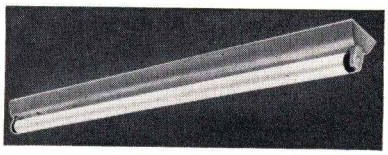
For commercial applications, it will give adequate illumination in restaurant booths, kitchens, powder rooms, small offices and stores.

Uses two T-12 20-watt fluorescent lamps.

Price, No. **RW-220**, for Mounting to Outlet Box .....each **$16.10**

Price, No. **RWC-220** with 7-ft. cord, plug set and pull switch.....each **17.73**

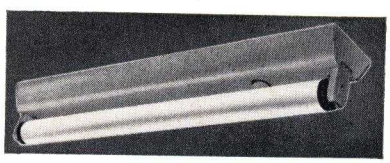
STRIP LIGHTING FIXTURES



These Sylvania fluorescent fixtures can be used wherever a strip of good lighting is required. The CS-140 uses a 40-watt fluorescent lamp and is designed for surface mounting on the wall or ceiling. Beauty of design makes this strip fixture attractive as well as useful throughout the house. Units are made of heavy-gauge steel and are remarkably compact. This fixture is available with either low or high power factor and with or without levolier switch. Complete with lamp. Overall length, 48⅛ inches. Shipping weight 9 pounds.

Price, **CS-140** (HPF) 1-40W lamp.....each **$12.46**
CS-140 (LPF) 1-40W lamp.....each **8.65**
With Levolier switch.....add **1.21**

STRIP LIGHTING FIXTURES



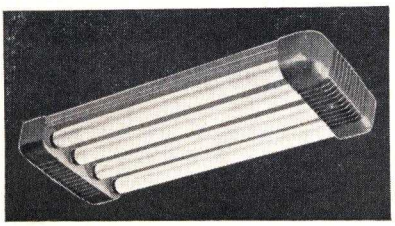
The CS-120 is designed for wall or ceiling mounting and is equipped with a 20-watt fluorescent lamp. Units are made of heavy-gauge steel and are remarkably compact. They are supplied with knockouts for pull switch, if desired. Complete with lamp. Overall length, 24⅛ inches. Shipping weight 5 pounds.

Price, **CS-120** (HPF) 1-20W lamp.....each **$9.63**
CS-120 (LPF) 1-20W lamp.....each **5.52**
CS-115 (LPF) 1-15W lamp.....each **5.52**
With Levolier switch.....add **1.21**

SYLVANIA FLUORESCENT LIGHTING FIXTURES

RESIDENTIAL TYPES

CONCORD R-422



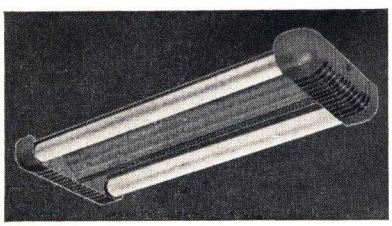
An attractively designed, sturdily constructed fixture which utilizes four 20-watt fluorescent lamps. It is streamlined in appearance and fits neatly against the ceiling. Constructed of 20-gauge steel with polished aluminum end caps, and with reflector finished in white Miracoat baked plastic enamel, the Concord is built for long life and attractive appearance.

Shipping weight, 19 pounds.

Price, The Concord **R-422**.....**$26.46**

Price includes lamps.

QUINCY R-222



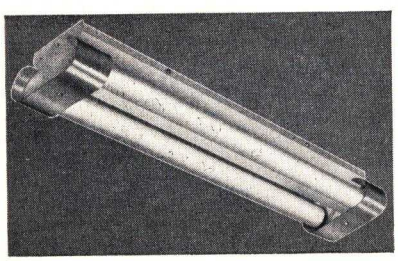
The Quincy R-222, a companion to the R-422 is also beautifully streamlined and uses two 20-watt fluorescent lamps. Especially suitable for bedrooms, small kitchens, bathrooms and hallways. It comes completely equipped with lamps, starters and ballast, all wired — ready to install. End caps are polished aluminum. Reflector is white Miracoat baked plastic enamel.

Shipping weight, 11 pounds.

Price, The Quincy **R-222**.....**$18.54**

Price includes lamps.

SUFFOLK R-228



This attractive fluorescent fixture has a simplicity of design that makes it perfectly suitable for most of the important rooms of the house. It is supplied with or without levolier switch. Complete with lamps. Shipping weight 8 pounds.

Price, The Suffolk **R-228**.....**$11.54**

With Levolier Switch.....add **1.21**

Price includes lamps.

MOE-BRIDGES FLUORESCENT LIGHTING

UNITE-A-LITE PIN-UP "DECORATOR" FLUORESCENT LIGHTING

UNITE-A-LITE comes in 24 inch and 48 inch lengths; gives rich, diffused light from standard 20 watt and 40 watt fluorescent lamps, operating on regular 110-120 volt current.

Beautifully styled in glass, plastic and metal. All fit same base unit.

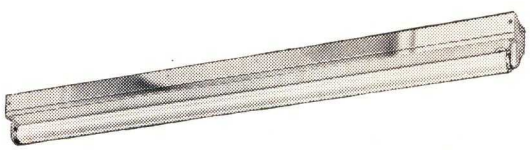
A Shield for Every Use—Over and beside windows, book shelves, paintings, beds, desks, mirrors, davenports, doors, fireplaces, buffets, kitchen work areas and in closets and attics.

For single or continuous cove lighting, shielded wall or ceiling lighting in any room in the home, in stores, shops, schools.

For merchandise displays, show windows, theatres, taverns, hotel lobbies, etc.

In laundries, hobby work shops, playrooms, entries, bath, powder rooms, breakfast nooks.

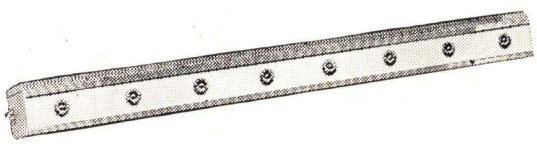
UNITE-A-LITE BASIC UNIT STRIPS



With built-in male and female plugs.

Cat. No.	Description	List Price L.P.F.	List Price H.P.F.
FL-1/24	1 Light, 20W, 24″ Strip	**$7.95**	**$12.95**
FL-2/48	1 Light, 40W, 48″ Strip	**13.95**	**17.50**

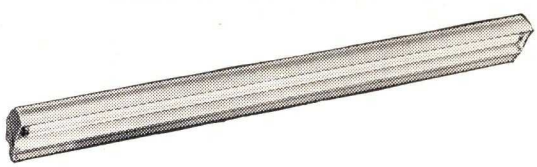
FL-60 ORNAMENTAL LOUVER



Wood-grained Blonde with Gold lacquer trim; Wood-grained Mahogany with Gold trim.

Cat. No.	Description	List Price
FL-60/24	Ornamental Louver Attachment for 24″ Unite-A-Lite Strip.....	**$ 5.95**
FL-60/48	Same for 48″ Unite-A-Lite Strip	**10.50**
FL-60/96	Same for 96″ Unite-A-Lite Strip	**19.95**

FL-26 FIXED REFLECTOR



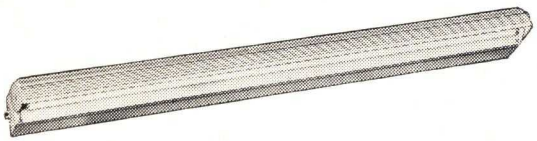
White, chip-proof, stain-proof baked white enamel. Gold trim.

Cat. No.	Description	List Price
FL-26/24	Fixed Reflector Attachment for 24″ Unite-A-Lite Strip.....	**$1.95**
FL-26/48	Same for 48″ Unite-A-Lite Strip	**2.50**

MOE-BRIDGES FLUORESCENT LIGHTING

UNITE-A-LITE PIN-UP "DECORATOR" FLUORESCENT LIGHTING

FL-31 ADJUSTABLE REFLECTOR



White, chip-resistant, stain-resistant baked white enamel. Gold trim.

Cat. No.	Description	List Price
FL-31/24	Adjustable Reflector Attachment for 24" Unite-A-Lite Strip	$2.50
FL-31/48	Same for 48" Unite-A-Lite Strip	3.50

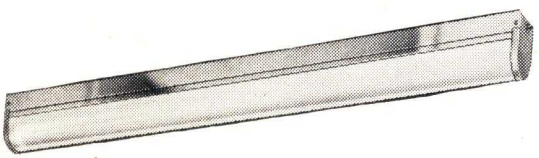
FL-39 GLASS PANEL REFLECTOR



Removable, ribbed etched crystal glass with brackets and channeled retaining strip.

Cat. No.	Description	List Price
FL-39/24	Glass Panel Reflector Attachment for 24" Unite-A-Lite Strip	$1.95
FL-39/48	Same for 48" Unite-A-Lite Strip	2.95

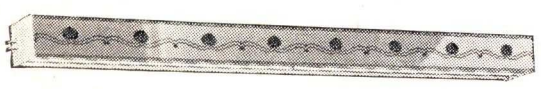
FL-46 PLASTIC SHIELD



High, light transmitting plastic with metal ends matching base strip.

Cat. No.	Description	List Price
FL-46/24	Plastic Enclosure Attachment for 24" Unite-A-Lite Strip	$5.95
FL-46/48	Same for 48" Unite-A-Lite Strip	9.95

FL-280 DECORATIVE SHIELD

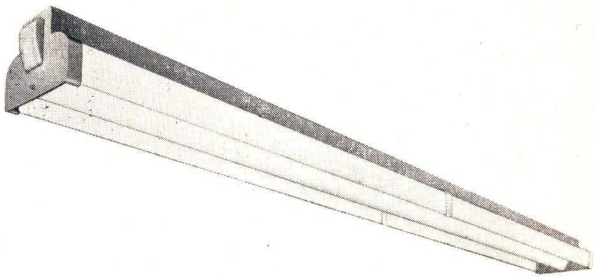


White enamel with sprayed Gold trim; sprayed Bronze with Silver trim.

Cat. No.	Description	List Price
FL-280/24	Decorative Louver Attachment for 24" Unite-A-Lite Strip	$2.95
FL-280/48	Same for 48" Unite-A-Lite Strip	4.95

CURTIS "STORE-LITER" LUMINAIRE

For Two T-12, 75-Watt, 96-Inch Fluorescent Lamps



The "Store-Liter" Luminaire is designed for high efficiency, ease of maintenance, high vertical illumination for lighting shelves, and low cost installation.

High transmission side panels provide high illumination on vertical surfaces such as shelves, clothes racks, etc. Side panels have small lengthwise prisms on the surface to retract and diffuse light. The high efficiency of the T-12, 96-inch lamps is utilized to provide more light per foot of lamp.

Provision is made for direct mounting to the ceiling over an outlet box. Also can be pendant mounted by use of No. 629 and 630 hangers.

Material and Finish: Wire channel and cover are of heavy gauge steel finished white Fluracite. End plates and mid-point rib are castings finished light gray. Side panels are fine-ribbed plastic.

Wired: Furnished wired with high power factor two-lamp ballast for 110-125 volts A.C. Each luminaire consumes approximately 195 watts. Can also be furnished for T-8 Slimline in various current ratings. Prices on application.

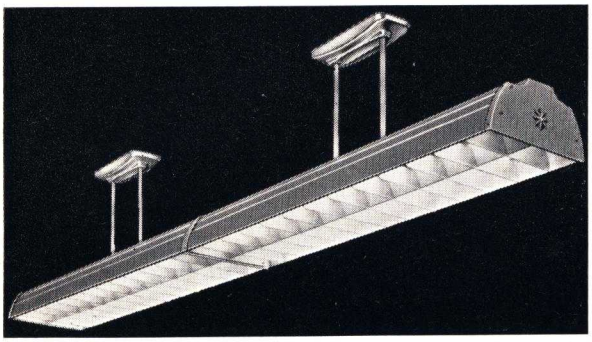
Bears Underwriters' Laboratories Label.

Dimensions: 96 inches long; 6¼ inches high; 11⅜ inches wide; 20° crosswise shielding.

Cat. No.	Description	Std. Pkg.	Wt. Lbs.	Price Each
7502-CLH	Body only	1	....	$62.50
629	Single-Stem Hanger Set	20	44	5.25
630	Intermediate Single Stem Hanger	20	27	2.85

CURTIS FLUORESCENT LUMINAIRES

"FORTY-SIXTY" SERIES UNITS



The "Forty-Sixty" is designed for eye comfort. The low brightness of the luminaire blends with the illuminated ceiling, producing a comfortable field of vision. High levels of illumination without distracting and harmful glare are readily attained with this unit.

Application: Particularly recommended for offices, classrooms and drafting rooms.

FLEUR-O-LIER Number: The 4060 pendant-mounted luminaire is classified under Fleur-O-Lier Index No. G-35-20-1-P.

Light Control: The ceiling is illuminated by an indirect component of approximately 40% of the light output. The 60% direct component is louvered to provide 35° crosswise and 25° lengthwise shielding. E.T.L. Curves and Coefficients of Utilization charts available upon request.

Material: Aluminum and steel. Aluminum reflectors and louver fins. White "Fluracite" wiring channel. End plates and hangers finished light gray. Ornamental star in Ivorytone.

Dimensions: Width, 12½ inches; depth of body, 5½ inches; length, 48¾ inches including ornaments. Stem hanger suspension 12 inches ceiling to top of body. Weight installed, approximately 25 lbs. per four-foot unit.

Construction: Louver is hinged and will swing down for cleaning and relamping or for access to the wiring channel. If desired, however, assembly can be completely removed by detaching two screws. Hanger permits easy installation. Standard suspension is 12 inches. Other length hangers can be supplied where required at extra cost. Stems available for 18, 24, 36 and 48-inch suspension.

Maintenance: All-metal unit with no horizontal reflecting or diffusing surfaces to collect dust — designed to require minimum of cleaning. Lamps may be replaced without removing the louver.

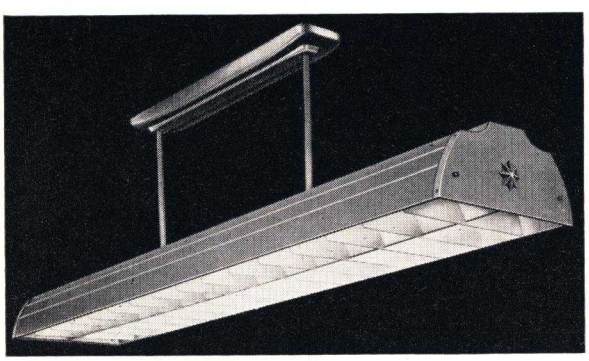
Wired: Furnished wired for 110-125 volt, A.C. with high power factor two-lamp ballast. Total watts, 95. Can be wired for other voltages and ballasts. Bears Underwriters' Laboratories and Fleur-O-Lier Labels. Price on application. Carton packed, with hanger packed separately. Less lamps and starters.

For two 40-watt lamps.

Cat. No.	Description	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
4060-CLH	Body only	1	25	**$29.60**
***4063-CLH**	Body only	1	....	**31.25**
631	Twin-Stem Hanger	20	45	**3.85**
629	Single-Stem Hanger Set	20	44	**5.25**
630	Single-Stem Hanger	20	27	**2.85**

*4063-CLH is a 4060-CLH type luminaire with special steel louver, finished white Fluracite, which affords 45° lengthwise shielding.

"FORTY-SIXTY-ONE" SERIES UNITS



"Forty-Sixty-One" is the 5-foot, two 85-watt size "Forty-Sixty." This unit is identical in cross-section and construction with 4060 except that it is 60¾ inches long and arranged for use with two 85-watt lamps.

Distribution is similar to that of the "Forty-Sixty." Can also be furnished for continuous runs with single-stem hangers. Allow 60⅜ inches on centers for spotting hangers except at ends where 56 7/16 inches is allowed.

FLEUR-O-LIER Numbers: The 4061 pendant-mounted luminaire is classified under Fleur-O-Lier Index No. SD-20-20-1-P; the surface-mounted 4061 luminaire is classified under SD-20-20-2-S.

Wired: For 110-125 volts A.C. circuits with high power factor ballasts. Total watts, 202. Less lamps and starters. Bears Underwriters' Label.

Cat. No.	Description	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
4061-CLH	Body only	1	36	**$45.85**
628	Twin Stem Hanger	10	43	**5.40**
629	Single-Stem Hanger Set	20	44	**5.25**
630	Single-Stem Hanger	20	27	**2.85**
699	Close-Ceiling Mounting Canopy	....	....	**7.65**
6436	Wire Entrance Equipment		1	**.63**

When close-ceiling mounted, one wire entrance equipment, No. 6436, is required for each individually mounted luminaire; and one for each circuit in continuous row.

Not listed above but also available are the following 5-ft. units: No. 4062 for two 40-watt low-brightness lamps without louver fins, and No. 4064 for two 40-watt low-brightness lamps with louver fins.

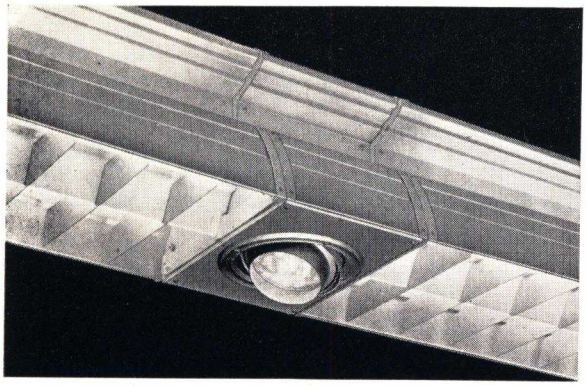
For pendant mounted 4062 and 4064 use same hangers as for 4061 (628, 629 and 630); and for surface-mounted units use same close-ceiling mounting canopy as for 4061 (No. 699).

Cat. No.	Description	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
4062-CLH	Body only	1	....	**$35.85**
4064-CLH	Body only	1	....	**38.75**

FLEUR-O-LIER Index Numbers: The 4062 pendant-mounted luminaire is classified under Fluer-O-Lier Index No. SR-20-0-0-P; the surface-mounted 4062 luminaire is classified under SD-20-0-0-S.

CURTIS FLUORESCENT LUMINAIRES

DOWNLIGHT BOXES FOR "ATTRACTION-ZONE" LIGHTING



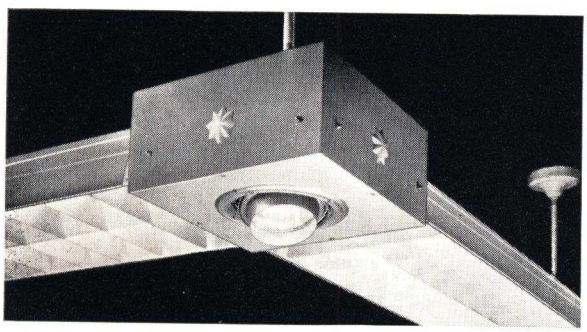
No. 2231—In-line reflector lamp unit for one 150-watt PAR-38 side prong spot or flood lamp. Used between any of the Curtis "Forty-Sixty" type luminaires. Includes joining equipment. Reflector lamp is adjustable 35 degrees from the vertical in any direction. For pendant mounting.

Aluminum and steel construction. Finish is same as 4060 series units. Width, 12½ inches; depth of body, 5½ inches; length, 8⅝ inches.

Canopy No. 650 is used with 2231 for surface mounting. Depth, 8⅜ inches.

Cat. No.	Hanger No. Included	Description	Net Wt. Lbs.	Price Each
2231	None	Pendant Box	4	**$15.10**
650		Ceiling Mounting Canopy	..	**4.15**

CORNER BOXES



No. 2232—Square reflector lamp unit for one 150-watt PAR-38 side prong spot or flood lamp. For pendant mounting. Used as a corner box to make 90 degree angle for square pattern arrangement of Curtis "Forty-Sixty" type luminaires. Also used to make crosses, T's, L's or other patterns. Includes joining equipment. Reflector lamp is adjustable 35 degrees from the vertical in any direction.

Steel and aluminum construction. Finish is Light Gray to match 4060 and 4061 series units. Width and length, 12¾ inches; depth, 5½ inches.

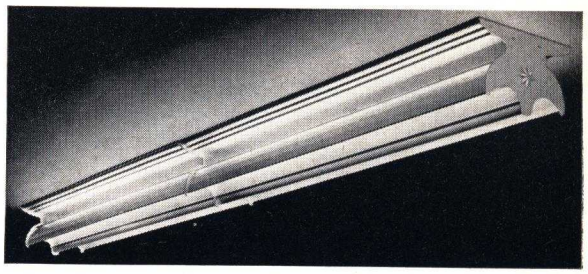
No. 2234—Same as 2232 except 8⅜ inches deep for use with surface-mounted 4060 type units; mounts directly on ceiling.

Cat. No.	Hanger No. Included	Description	Net Wt. Lbs.	Price Each
2232	*None	Pendant Box	7	**$18.10**
2234	None	Surface Box	9	**18.10**

*No. 630 hanger is used, **$2.85** each.

CURTIS FLUORESCENT LUMINAIRES

"NEW" SKYLUX LUMINAIRES



The latest design in a distinguished series. Primarily direct lighting units for ceiling mounting in continuous lines, but may be suspended by means of standard hangers.

Particularly recommended is the Alzak Aluminum model which is characterized by a soft silvery appearance when lighted, and combines high utilization and low brightness.

Each unit is a complete luminaire in itself or may be used with other units to make up a continuous run. Each unit includes both end ornaments and joining equipment.

FLEUR-O-LIER Index Number: The 980-C and 990-C luminaires are classified under Fleur-O-Lier Index No. D-30-0-1-S.

Application—Office lighting; also store lighting and particularly for lobbies and foyers with No. 2235 reflector lamp units.

Material: No. 980-C has reflectors and lamp shields made of aluminum and finished Satin Alzak Aluminum. End plates finished Light Gray. No. 990-C is made of steel and finished white "Fluracite." Both types have Light Gray end plates and molding with an Ivorytone plastic star ornament.

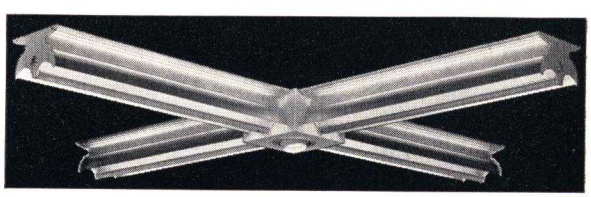
Dimensions: Overall height, 6⅞ inches; width, 11½ inches. Individual section including ornament is 48⅛ inches in length and each additional unit will add 48⅛ inches to total length when assembled.

Wired: Furnished wired for 110-125 volt A.C. with high power factor two-lamp ballast. Total watt, 95. Can be wired with other voltages and ballasts. Carton packed.

Illumination Data: E.T.L. Curves and Coefficients of Utilization charts available on request.

Cat. No.	Lamps	Description	Net Wt. Lbs.	Price Each
980-C	2-40	Alzak SkyLux	22	**$41.15**
990-C	2-40	"Fluracite" SkyLux ..	28	**35.00**

REFLECTOR LAMP UNIT



No. 2235 Reflector Lamp Unit for one 150-watt PAR-38 medium base spot or flood lamp. Includes joining equipment. Reflector lamp is adjustable 35 degrees from the vertical in any direction.

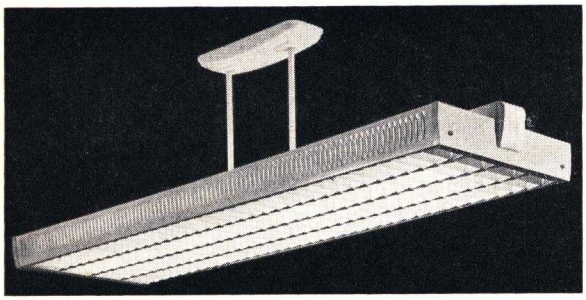
Made of steel and aluminum. Finish Light Gray with aluminum flange. Width and length, 12¾ inches; depth, 7⅛ inches. Can be used in line or at corners or ends of rows or to form crosses, L's or T's. For both 980-C and 990-C units.

Cat. No.	Lamps	Description	Net Wt. Lbs.	Price Each
2235	PAR-38 MB	Reflector Lamp Unit	8	**$18.10**

CURTIS FLUORESCENT LUMINAIRES

"ANNIVERSARY" SERIES UNITS

"51" PENDANT UNIT



The "Anniversary" luminaire is a shallow, graceful design that will harmonize with modern decorative schemes. The distinctive dart pattern visible from the underside of the fixture lends interest.

Because of the high indirect lighting component (approximately 60 per cent from the pendant type "51"), this luminaire will give satisfactory results even under unfavorable conditions.

FLEUR-O-LIER Index Number: The "51" pendant-mounted luminaire is classified under Fleur-O-Lier Index No. G-30-30-1-P.

Application: Store lighting. Also suitable for office lighting and similar applications.

Light Control: The "51" luminaire is of the general diffusing type with top completely open for better utilization of the indirect lighting component. The direct lighting component is shielded 30 degrees lengthwise and crosswise by the attractive one-piece louver.

Material and Finish: Steel with plastic end cap. White "Fluracite" channel, louver and side panels; end plates and hanger light gray.

Dimensions: Width, 18 inches; overall depth, 4½ inches; depth of body, 3 inches; length, including end ornaments, 51⅝ inches. Stem hanger suspension, 12 inches from ceiling to top of body.

Construction: Louver hinges from either side or can be removed completely. Hanger permits easy installation. Standard suspension, 12 inches. Other hanger lengths at extra cost. Stems available for 18, 24, 36 and 48-inch suspension.

Maintenance: All metal unit with no horizontal reflecting or diffusing surfaces to collect dust — designed to require a minimum of cleaning. Lamps and starters can be replaced without removing the louver.

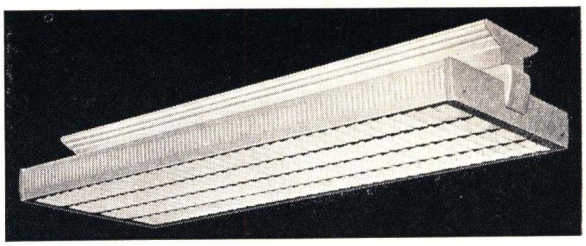
Wired: Furnished wired for 110-125 volt A.C. with high power factor two-lamp ballasts. Total watts, 198. Can be wired with other voltages. Less lamps and starters. Prices on request.

Carton packed with hanger packed separately.

Cat. No.	Description	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
51-CLH	Body only (4-40 watt)	1	30	**$56.70**
631	Twin-Stem Hanger	20	45	**3.85**
629	Single-Stem Hanger Set	20	33	**5.25**
630	Single Stem	20	27	**2.85**

CURTIS FLUORESCENT LUMINAIRES

"51" CLOSE CEILING UNIT

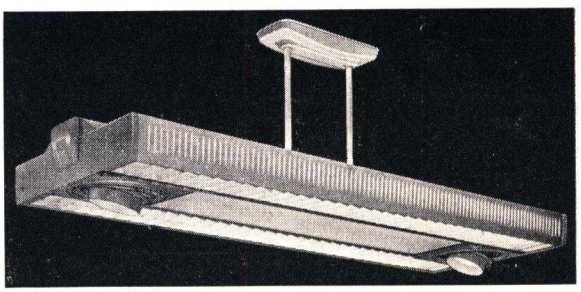


The matching close ceiling unit for the pendant "51". Overall depth of this unit is 7⅜ inches. One wiring entrance, Catalog No. 6436, required for each individually mounted luminaire, and one for each circuit in continuous rows.

FLEUR-O-LIER Index Number: The "51" Close ceiling mounted unit is classified under Fleur-O-Lier Index No. SD-30-30-2-S.

Cat. No.	Lamps	Hanger Included	Description	Net Wt. Lbs.	Price Each
51-CLH	4-40	None	Body only	34	**$56.70**
6436	Wire Entrance		Equipment	1	**.63**

THE "52" SERIES



A companion series for the standard "51" units, the "52" luminaires, are for two 40-watt lamps and two 150-watt PAR-38 side prong spot or flood reflector lamps. Dimensions and finishes match those of the "51" units. Both types can be used in the same continuous run.

When close ceiling mounted, one wiring entrance No. 6436 is required for each individually mounted luminaire, and one for each circuit in continuous rows.

Cat. No.	Description	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
52-CLH	Body only (2-40 watt*)	1	....	**$79.20**
631	Twin-Stem Hanger	20	....	**3.85**
629	Single-Stem Hanger Set	20	....	**5.25**
630	Single Stem	20	....	**2.85**
695	Close ceiling-mounting canopy	....	....	**7.00**
6436	Wire entrance equipment	1	....	**.63**

*Also 2 PAR-38/SP (150 watt) incandescent lamps.

"ANNIVERSARY" COMBINATIONS

The "Anniversary" series luminaires constitute a complete and flexible line of lighting equipment for either pendant or surface (close ceiling) mounting. There are two fundamental units, 51-CLH and 52-CLH, and each of these can be used in combination with the other or with the various boxes listed for 150-watt PAR-38 spot or flood lamps. The various complete units and boxes are in general listed with hangers for convenience in pricing and ordering.

CURTIS FLUORESCENT LUMINAIRES

HANGERS

No. 629—Basic hanger for suspending 51-CLH and 52-CLH in continuous lines, included with various combination units. Consists of two separate stems with canopies and fittings. One stem is used at each end of run. Wire entrance is made through one of these 12-inch suspension stems.

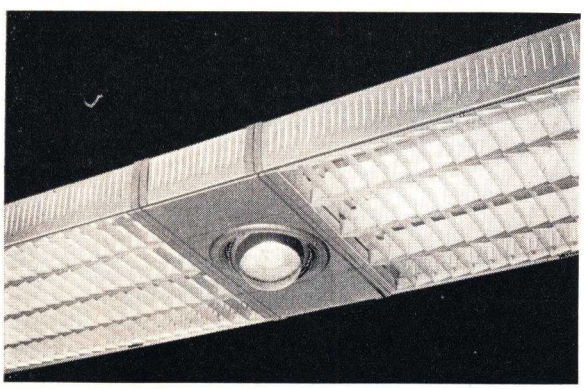
No. 630—Extension hanger for suspending 51-CLH and 52-CLH in continuous lines included with various combination units. Consists of a single-stem with canopy and fittings and a connector cap used to bridge the joint between two adjacent units. When the "spot box" No. 2236 is suspended, one of these hangers is borrowed from the adjacent unit and is attached to the "spot box."

No. 631—Twin stem hanger for 51-CLH and 52-CLH, 12-inch suspension.

No. 695—Surface mounting canopy for mounting 51-CLH and 52-CLH on the ceiling. Order one No. 6436 (wire entrance equipment) for each wire entrance.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
629	Basic hanger set	20	44	**$5.25**
630	Intermediate hanger	20	27	**2.85**
631	Twin-stem hanger	20	45	**3.85**
695	Surface mounting canopy for 51-CLH and 52-CLH	1	8	**7.00**
6436	Wire entrance equipment	1	1	**.63**

IN-LINE BOXES



No. 2236 In-Line reflector lamp unit for one 150-watt PAR-38 side prong spot or flood lamp. Used between or at the end of any of the "Anniversary" type luminaires. Includes joining equipment. Reflector lamp is adjustable 35 degrees from the vertical in any direction. Aluminum and steel construction. Finish is the same as the "Anniversary" units. Width, 18 inches; overall depth, 4½ inches; length, 8⅝ inches.

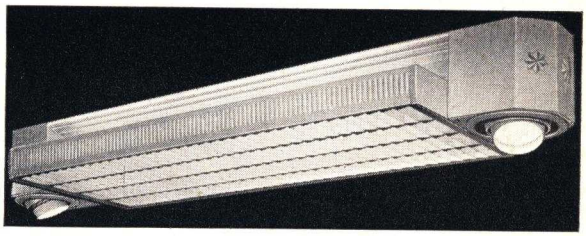
Canopy No. 650 is used for surface mounting.

Cat. No.	Hanger Included	Description	Net Wt. Lbs.	Price Each
2236	*None	Pendant	5	**$22.00**
658		Ceiling-Mounting Canopy	7	**4.15**

*No. 630 is used, **$2.85** each.

CURTIS FLUORESCENT LUMINAIRES

No. 2233 CORNER BOX



Reflector lamp box for one 150-watt PAR-38 medium base spot or flood lamp. Used only with surface mounted "51" series luminaires. Used in making a 90 degree angle (two of these boxes bolted together at diagonal faces (*) to make right angle turn) and a great number of interesting patterns, or may be used at the end of an individual unit or long line. Includes joining equipment. Reflector lamp is adjustable 35 degrees from the vertical in any direction.

Material: Steel and aluminum. Finish is light gray to match end plates on "Anniversary" series.

Dimensions: Width, 8¼ inches; depth, 7⅜ inches; length, 8¼ inches.

Cat. No.	Hanger	Description	Net Wt. Lbs.	Price Each
2233	None	Close Ceiling	4	**$14.70**

*Diagonal faces are set at 45-degree angle with sides.

CURTIS "PUNCHY" UNIT



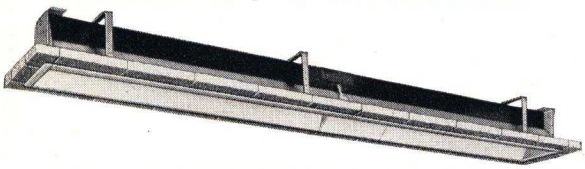
No. 2240 is a small, highly practical downlight, sturdily constructed of steel and aluminum, utilizing one side prong PAR-38, 150-watt projector flood or spot lamp. An aluminum gimbal ring permits the lamp to be adjusted to any angle 0° to 35° from the vertical and 0° to 360° horizontal. Angle of lamp is easily adjusted from the floor. As the name implies, this unit provides punch lighting for counters, showcases, mannequins, and other areas where "Attraction-Zone" lighting will give maximum sales appeal to merchandise.

Visible surfaces finished in aluminum and white Fluracite. Outside steel ring white Fluracite finish; entire gimbal ring aluminum. Housing black, steel, 6 inches required for recessing. Unit bears Underwriters' Laboratories Label. Less lamps. Plaster ring, No. 14011, must be ordered separately.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Each	Price Each
2240	"Punchy" Unit	1	....	**$12.50**
14011	Plaster Ring	10	10	**1.05**

CURTIS FLUORESCENT LUMINAIRES

CURTIS "Eye-Comfort" TROFFERS
For One 40-Watt (60") Low-Brightness Fluorescent Lamp Per Five-Foot Section



Curtis "Eye-Comfort" Troffers are designed for eye-comfort and high efficiency. The contour of the reflector is designed for low-brightness, to produce installations having low-brightness ratios. The parabolic contour directs a maximum amount of light to the working plane.

Application: For offices, schools, stores and other commercial locations.

Fleur-O-Lier Index No.: The 1762-C Troffer is classified under the Fleur-O-Lier Index No. D-40-0-0-R.

Construction: Wireway is a five-foot, three-sided steel channel, easily coupled on the floor to form continuous rows of convenient installation lengths. The wireway is suspended from "U" shaped brackets which are readily adjustable for thickness of framing and plaster or acoustical material. Alzak Aluminum reflector is assembled to the wireway channel with four nuts.

Material: Wireway channel, intermediate and end plates are made of heavy gauge steel. Parabolic reflectors are of aluminum.

Finish: Reflectors finished Alzak Aluminum. Wireway channel finished black; intermediate and end plates finished aluminum bronze.

Dimensions: Required ceiling opening approximately 12 inches wide, and length in multiples of five feet. Recessing depth from ceiling line to top of troffer assembly is twelve inches.

Candlepower Distribution: Luminaire is of direct type. Approximately 95% of the luminaire output is in the 0°-60° zone. Less than 4%, the bare lamp output, emitted from the luminaire is in the 60°-90° zone. The transverse shielding angle is 40° (50°-90°).

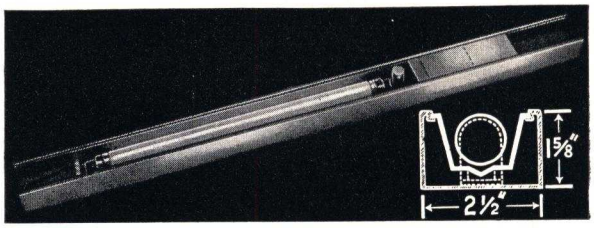
Wiring: Troffers are available wired only for 110-125 volt A.C. circuits and are supplied with two-lamp instant start high power factor ballasts. Total wattage — 110 watts for each 10 foot section. In general, one wire entrance is sufficient for an entire line. Less lamps.

Ordering Information: Each 10-ft. basic section (No. 1762-C10′) and each 10-ft. extension section (No. 1762-CE10′) employs two 60-inch, 40-watt low-brightness lamps and one two-lamp instant start high power factor ballast. Each 5-ft. section (No. 1761-C5′) utilizes one two-lamp instant start high power factor ballast wired for one 60-inch 40-watt low-brightness lamp. Where an installation requires five-foot multiples, such as two rows of 25-ft., two 10-ft. basic sections and three 10-ft. extension sections would be utilized for greatest economy. An installation requiring five-foot multiples in odd number of rows, such as three rows of 25-ft., two 10-ft. basic sections, one 5-ft. basic section and five 10-ft. extension sections would be used.

Cat. No.	Description	Price Each
1762-C10′	Basic unit for two 60-inch, T-17, 40-watt fluorescent lamps	$82.10
1762-CE10′	Extension unit for two 60-inch, T-17, 40-watt fluorescent lamps	77.60
1762-C5′	Basic unit for one 60-inch, T-17, 40-watt fluorescent lamp	51.20

FLUORESCENT CURTISTRIP

LIGHTSTRIP UNITS



LightStrip is the most compact type of Fluorescent CurtiStrip to be used wherever space is at a premium. The wired units listed below are only a few of the possibilities. Since the ballast is housed in the channel itself between reflectors on these units, the light source is not continuous. Where LightStrip is wanted with ballasts mounted elsewhere than in the channel or for other possible arrangements, order by parts. Bears Underwriters' Label.

Decorative Type Cat. No.		Price Each	Economy Type Cat. No.		Price Each	Lamps Required
		Nominal Length, 3 Feet				
269C	3′	$16.60	267C	3′	$14.90	18″(15w)
		Nominal Length, 5 Feet				
269C	5′	20.75	267C	5′	18.75	3′ (30w)
		Nominal Length, 8 Feet				
269C	8′	34.25	267C	8′	31.65	1–3′ (30w) 1–18″(15w)
		Nominal Length, 10 Feet				
269C	10′	36.35	267C	10′	33.00	2–3′ (30w)
		Nominal Length, 10 Feet				
269CE	10′	34.90	267CE	10′	33.00	2–3′ (30w)

All units listed are basic units, complete with ends except 267CE 10′ and 269CE 10′ which are extension sections. Long runs are made up with one basic unit and as many extensions as desired.

LIGHTSTRIP UNIT ASSEMBLIES



These assemblies are for use in CurtiStrip where space is at a premium. Listed by Underwriters' Laboratories, Inc. Assembly consists of Alzak Aluminum reflector, two ejector type lampholders (one a combination lampholder and starter socket), two reflector end plates and miscellaneous parts.

Dimensions: Reflector only for No. 261 (18-inch lamp) requires 21⅜ inches of channel space and 23 inches including reflector end plates. Reflectors can be butted together where desired and reflector end plates used only at ends of units. Additional space is required for ballasts which is normally carried in the channel between reflectors.

Cat. No.	Description	Price Each
261	For 15-watt T-8 lamp	$3.90
262	For 30-watt T-8 lamp	4.35

FLUORESCENT CURTISTRIP

Listed by Underwriters' Laboratories, Inc.

WITH FLURACITE REFLECTORS

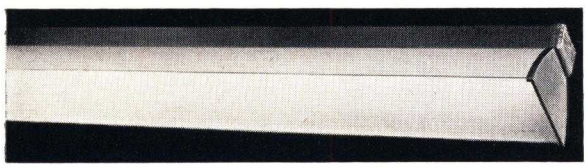
Fluorescent CurtiStrip fixtures are furnished with steel reflectors finished snow white Fluracite inside and out. Fluracite is a white, mineral-hard surface specially developed by Curtis and recommended for its extremely high efficiency and durability. Fluracite reflectors add a fresh flowing appearance to the fixtures.

Decorative Type — Smooth flowing lines, tastefully designed end caps and reflector end plates give the decorative type fixtures an attractive and neat appearance. Channel and end pieces finished Satin Silvertone; white Fluracite reflectors, decorative channel end caps and closed reflector ends.

Economy Type—Plain rust-resisting-finish channel and white Fluracite reflectors, No. 46 end caps for conduit connection and open reflector ends.

Wiring — Units complete with High Power Factor ballasts, and lampholders. Less Lamp. For 60 cycle 110-125 Volt A.C. Circuits. Bear Underwriters' Label.

DEEP REFLECTOR UNITS



For general lighting or localized direct lighting over counters, cases and worktables.

Decorative Type			Economy Type		
Cat. No.		Price	Cat. No.		Price
940-C	1½′	$17.25	942-C	1½′	$13.85
940-C	2′	18.10	942-C	2′	14.50
940-C	3′	22.25	942-C	3′	18.75
940-C	4′	23.25	942-C	4′	19.50
Continuous Run			Continuous Run		
940-C	8′	38.85	942-C	8′	34.25
2′ Extension			2′ Extension		
940-CE	2′	14.85	942-CE	2′	14.25
940-CE	8′	35.75	942-CE	8′	34.15

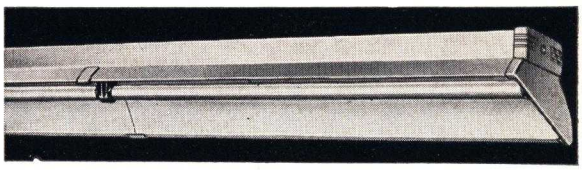
Alzak Aluminum Reflector Units

Deep Reflector Units			Deep Reflector Units		
973-C	1½′	$18.00	974-C	1½′	$14.60
973-C	2′	19.15	974-C	2′	15.50
973-C	3′	24.00	974-C	3′	20.20
973-C	4′	26.40	974-C	4′	22.60
973-C	8′	45.10	974-C	8′	40.60
973-CE	2′	15.85	974-CE	2′	15.35
973-CE	8′	42.00	974-CE	8′	40.40

FLUORESCENT CURTISTRIP

Listed by Underwriters' Laboratories, Inc.

SHALLOW REFLECTOR UNITS



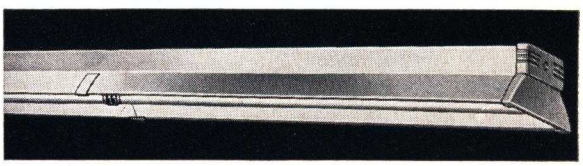
For general lighting, local lighting when mounted below eye level and for indirect lighting.

Decorative Type			Economy Type		
Cat. No.		Price	Cat No.		Price
944-C	1½′	$16.25	946-C	1½′	$13.35
944-C	2′	16.85	946-C	2′	13.90
944-C	3′	21.25	946-C	3′	18.25
944-C	4′	21.85	946-C	4′	18.65
Continuous Run			Continuous Run		
944-C	8′	36.60	946-C	8′	32.65
Continuous Runs			Continuous Runs		
944-CE	2′	14.25	946-CE	2′	13.65
944-CE	8′	34.15	946-CE	8′	32.35

Alzak Aluminum Reflector Units

Shallow Reflector Units			Shallow Reflector Units		
975-C	1½′	$16.65	976-C	1½′	$13.85
975-C	2′	17.60	976-C	2′	14.65
975-C	3′	22.25	976-C	3′	19.25
975-C	4′	24.25	976-C	4′	21.00
975-C	8′	41.40	976-C	8′	37.50
975-CE	2′	15.00	976-CE	2′	14.35
975-CE	8′	39.00	976-CE	8′	37.25

ASYMMETRIC REFLECTOR UNITS



For lighting sloping and vertical surfaces, show window and cove applications.

Decorative Type			Economy Type		
Cat. No.		Price	Cat. No.		Price
948-C	1½′	$17.15	950-C	1½′	$13.50
948-C	2′	18.00	950-C	2′	14.25
948-C	3′	22.10	950-C	3′	18.35
948-C	4′	22.90	950-C	4′	18.90
Continuous Runs			Continuous Runs		
948-C	8′	38.00	950-C	8′	33.35
2′ Extension			2′ Extension		
948-CE	2′	14.60	950-CE	2′	14.00
948-CE	8′	34.85	950-CE	8′	33.25

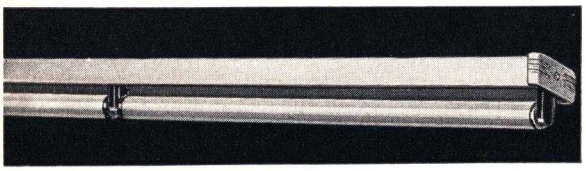
Alzak Aluminum Reflector Units

Asymmetric Reflector Units			Asymmetric Reflector Units		
977-C	1½′	$17.60	978-C	1½′	$14.00
977-C	2′	18.65	978-C	2′	14.90
977-C	3′	23.35	978-C	3′	19.65
977-C	4′	25.50	978-C	4′	21.50
977-C	8′	43.20	978-C	8′	38.50
977-CE	2′	15.15	978-CE	2′	14.65
977-CE	8′	40.10	978-CE	8′	38.40

FLUORESCENT CURTISTRIP

Listed by Underwriters' Laboratories, Inc.

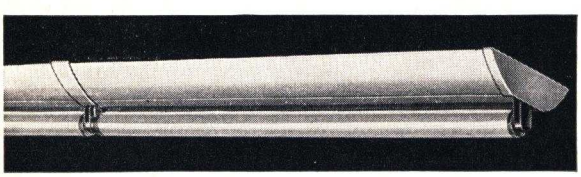
REFLECTORLESS UNITS



For strip lighting and decorative applications.

Decorative Type			Economy Type		
Cat. No.		Price	Cat. No.		Price
954-C	1½′	$12.35	956-C	1½′	$11.10
954-C	2′	12.90	956-C	2′	11.50
954-C	3′	16.00	956-C	3′	14.50
954-C	4′	17.00	956-C	4′	15.40
Continuous Runs			**Continuous Runs**		
954-C	8′	$28.25	956-C	8′	$26.25
2′ Extension			**2′ Extension**		
954-CE	2′	$11.85	956-CE	2′	$11.25
954-CE	8	27.60	956-CE	8′	25.90

WINGED BACK REFLECTOR UNITS



For strip lighting and other decorative lighting. Usually mounted directly on flat surface.

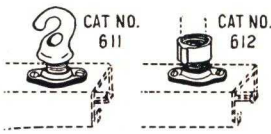
Decorative Type					
Cat. No.		Price	Cat. No.		Price
952-C	1½′	$14.35	952-C	3′	$19.25
952-C	2′	14.90	952-C	4′	19.85
Continuous Runs			**2′ Extension**		
952-C	8′	$33.60	952-CE	2′	$14.00
			952-CE	8′	33.00

FLUORESCENT CURTISTRIP

HANGERS AND FITTINGS

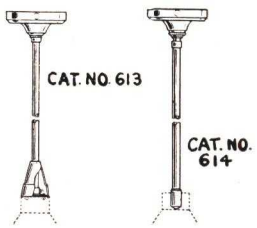


No. 9. Strap for holding CurtiStrip. May be used with Fluorescent reflectors each $0.17



No. 611. Hook fitting. For chain suspension....each $0.50

No. 612. Fittings for ½" iron pipe mounting to top of channel ..... each $0.18



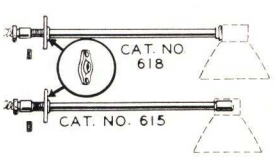
No. 613. Hanger for mounting to outlet box in ceiling; use two hangers for each section of CurtiStrip up to 10 ft. Standard suspension 40" to top of CurtiStrip. May be cut to shorter lengths without threading..each $4.35

No. 614. Hanger with angle fitting for No. 501 end cap. For mounting to outlet box in ceiling for direct or indirect lighting*.....each $3.85

*Suspension 21 inches to top of CurtiStrip.

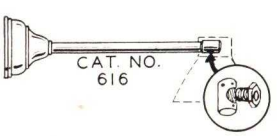
Horizontal or Pedestal Supports

Finished pipe included in these supports has a standard length of 18 inches. Brackets should be spaced not more than 6 feet apart.

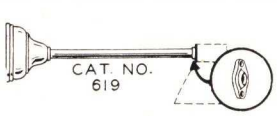


No. 618. Support. For mounting on vertical surfaces. Connects to side of CurtiStrip channel. Includes ⅜" iron pipe connector, flexible conduit connector and bushing for cord connections. One support is suggested for each 18" or 24" section; two for longer sections .....each $2.75

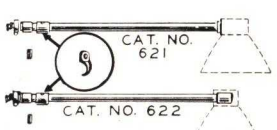
No. 615. Support with angle fitting for No. 501 end cap .....each $3.25



No. 616. Support with angle fitting for No. 501 end cap. For mounting to outlet box in wall or other vertical surfaces. Slip-ring style canopy .....each $3.35



No. 619. Support. For mounting to outlet box. Connects to side of CurtiStrip channel. One mounting bracket is suggested for each 18" or 24" section; two for longer sections .....each $2.75



No. 621. Support. For mounting on top surface of wall case or other horizontal surfaces. Extension is adjustable .....each $2.25

No. 622. Support with angle fitting for No. 501 end cap. For mounting on top surface of wall case or side of table or counter. Extension is adjustable .....each $2.75

PARTS FOR FLUORESCENT CURTISTRIP

The contractor can make up his own fluorescent fixtures from the parts below. This will be desirable if unfinished parts may be used, in installations where equipment will be concealed, and in certain applications.

STANDARD CURTISTRIP CHANNEL



Channel and cover are made of .040" gauge cold-rolled steel, size 2½ inches wide and 1⅝ inches deep.

Plain (zinc-plated) Finish

Cat. No.	Description	Lgths.	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
1	Channel with cover	10′	100′	130	$5.25
1-A	Channel only	10′	100′	115	3.85
1-B	Cover only	10′	100′	40	1.65

Satin Silvertone Finish

1-C	Channel only	10′	100′	58	6.00

Channels Only

	Plain Finish (zinc-plated)				Satin Silvertone Finish			
Lgths.	Cat. No.	Std. Pkg.	Shpg. Wt. Lbs.	Price Each	Cat. No.	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
5′	581	BP	3	$2.50	561	BP	3	$3.60
18″	591	10	20	.92	562	10	18	1.42
2′	593	10	25	1.17	563	10	25	1.58
3′	596	10	35	1.65	564	10	35	2.35
4′	597	10	45	2.15	565	10	48	2.90
6′	598	10	75	3.10	566	5	36	4.10
8′	599	10	100	3.85	567	5	46	5.00
8′	799*	5	46	4.15	767*	5	46	5.35

*Nos. 767 and 799 have 17⅜" of channel lip cut out of section permitting use of intermediate cross-section 2 lamp ballasts to be used in CurtiStrip beneath reflectors.

BP—Bulk packed. No standard package quantity. Shipping weight shown is average per unit.



No. 16

NO. 16 COUPLING

Cat. No. 16 coupling for connecting two pieces of CurtiStrip channel.

Price, No. **16** Coupling .....each **$0.37**

CURTISTRIP END CAPS



No. 6



No. 31



No. 46



No. 501

Both decorative and plain end caps are available. These end caps, besides giving a finished appearance, provide means of support when CurtiStrip is suspended from ends of channel.

Cat. No.	Description	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
6†	Plain End Cap	10	3	$0.20
31†	Plain Bushed End Cap	10	3	.33
46†	Extended End Cap	10	3	.33
501	Decorative End Cap	10	6	.87

†Rust-resisting plated. Use No. 46 in place of No. 6 where wire connection is to be made through end of CurtiStrip and lampholder is to be even with end of channel.

SOCKET-REFLECTOR SUPPORTS





Cat. No.	Finish	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
782	Plain, Rust-resisting	10 Sets	3	$0.45
788	Fluracite (white)	10 Sets	3	.50

PARTS FOR FLUORESCENT CURTISTRIP

FILL-IN COVERS

Cat. No.	Length	Finish	Std. Pkg. Lengths	Price Each
798*	39″	Fluracite (white)	20	$0.67
1-B	10′	Plain rust-resisting	10	1.65

*No. 798 is machine-scored at 3-inch intervals.

BALLAST HOLDER STRAPS

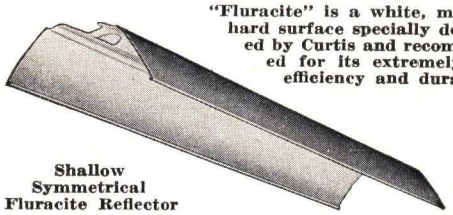
Two ballast holder straps are needed when ballast is mounted in CurtiStrip.

Price, No. **181** Ballast Holder Strap.....each **$0.25**

No. **9** Strap for Holding Curtistrip against any flat surface .....each **$0.17**

FLURACITE REFLECTORS

"Fluracite" is a white, mineral-hard surface specially developed by Curtis and recommended for its extremely high efficiency and durability.



Shallow Symmetrical Fluracite Reflector

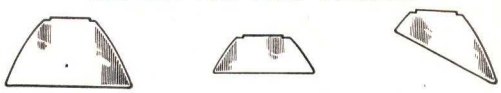
These reflectors are made of steel and are finished snow-white "Fluracite" inside and out. Their contours reflect the light of the fluorescent lamp with maximum efficiency. Provided with hole for starter.

Alzak Aluminum Reflectors are similar to those above but are aluminum with diffuse Alzak aluminum finish.

Fluracite Reflectors

Length Inches	Std. Pkg.	Deep Symmetrical Semi-Concentrating Cat. No.	Deep Symmetrical Semi-Concentrating Price Each	Shallow Symmetrical Distributing Cat. No.	Shallow Symmetrical Distributing Price Each	Asymmetrical Directional Type Cat. No.	Asymmetrical Directional Type Price Each
18	10	245	$2.35	256	$1.85	249	$2.00
24	10	246	2.75	257	2.15	250	2.50
36	10	247	3.60	258	3.15	251	3.25
48	10	248	4.40	259	3.60	252	4.00
Alzak Aluminum Reflectors							
18	10	102	3.10	114	2.35	106	2.50
24	10	103	3.85	115	2.90	107	3.15
36	10	104	5.35	116	4.15	108	4.50
48	10	105	7.60	117	6.00	109	6.60

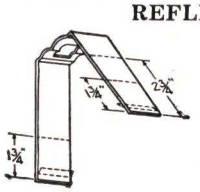
REFLECTOR END PLATES



These end plates, if used, close ends of the reflectors and provide extra strength and rigidity.

Type	Satin Silvertone Finish Cat. No.	Std. Pkg.	Price Each
Deep	502	10	$1.12
Shallow	503	10	.82
Asymmetrical (right end)	504	10	1.25
Asymmetrical (left end)	505	10	1.25

REFLECTOR CONNECTOR



In continuous runs of all types of reflector assemblies between reflectors, connectors should be used to cover reflector joint. The connector is a soft metal strap which fits over two adjoining sockets and is bent over reflector, making a neat joint and preventing light leakage. No. 129 is used with all types of reflectors. Finish is Satin Aluminum. Standard package, 20.

Price

No. **129** Connector for reflectors.....each **$0.28**

CurtiStrip

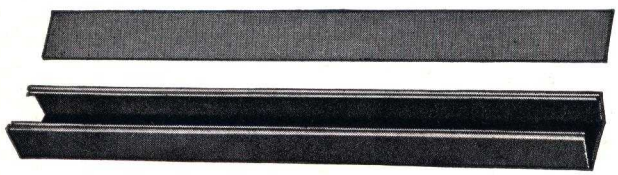
TRADE MARK REG.

CurtiStrip is a large capacity wiring channel and raceway that offers unusual flexibility and a wide range of uses with its standardized fittings. The patented snap-in flat cover permits outlets to be installed on any spacing. The cover, placed between sockets or fittings, is cut to length required with tinner's shears and snaps into the lips of the channel. Channel may be cut to any length with a hacksaw. Sections longer than 10 feet may be coupled together to form a continuous channel.

CurtiStrip Channel and fittings listed by Underwriters' Laboratories, Inc.

CURTISTRIP CHANNEL AND COVER

Channel and cover made of .040"-gauge cold rolled steel, rust-resisting plated. Size 2½" wide x 1⅝" deep.



Cat. No.	Description	Std. Pkg.	Price Per Ft.
1	Channel with cover, 10 ft. lengths	100 ft.	$0.52½
1-A	Channel only, 10 ft. lengths	100 ft.	.38½
1-B	Cover only, 10 ft. lengths	100 ft.	.16½

CURTISTRIP ASSEMBLED

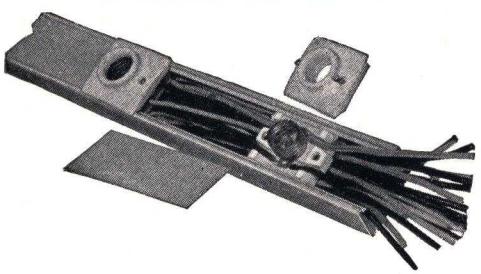
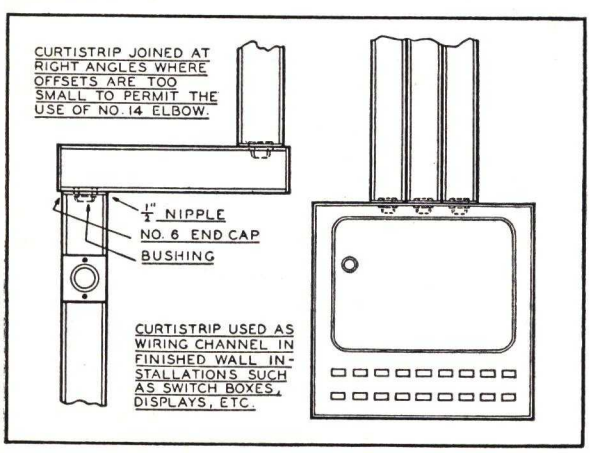


Illustration shows assembled section of CurtiStrip with one socket cover and socket spacer removed. Notice wires are stripped and laid under terminals.



CURTISTRIP FITTINGS AND ACCESSORIES

DESCRIPTION AND PRICES



No. 5. Porcelain receptacle with shade holder groove **$0.58**

No. 5-A. Special porcelain socket (no shade holder groove) for use with "X-Ray" screw engaging holders **$0.75**



No. 6. End cap to close and finish end of CurtiStrip. Provided with ⅞" knockout for ½" conduit (can be reamed to ¾" for lead-in circuit) **$0.20**



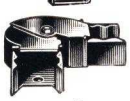
No. 9. Strap for holding CurtiStrip against any flat surface. Overall spread 3⅞". Holes on 3 5/16" centers **$0.17**



No. 12. Service box. Top removable. Has four 1⅛" knockouts (bottom, end, and two sides) for ¾" conduit. May be reamed up to 1½" **$2.25**



No. 13. Bracket to hang CurtiStrip on pipe or chain hanger. Height top to bottom 3" **$0.70**



No. 14. Elbow adjustable from 70° to 180°. Cover is removable and eliminates fishing of wires. Separable body permits using elbow as splice box **$3.35**



No. 16. Coupling used for connecting two pieces of CurtiStrip. Does not reduce size of wireway or interfere with use of CurtiStrip sockets **$0.37**



No. 19. Nipple Attachment (⅜" female thread) **$0.83**

No. 19BX. Attachment for ½" BX or ½" socket (with chase nipple) **$0.67**



No. 20. Single receptacle plate. Takes all standard receptacles **$0.62**



No. 21. Switch plate. Takes standard toggle switch **$0.62**



No. 23. Duplex receptacle plate. Takes all standard receptacles **$0.62**



No. 24. Bracket assembly for mounting CurtiStrip out from transom bar or for suspending from ceiling. Includes ⅜" nipple 6¼" long with two locknuts and No. 13 Bracket **$1.65**



No. 31. Plain bushed end cap. For flexible cord connection. Not listed by the Underwriters' Laboratories, Inc. **$0.33**



No. 46. Extended end cap, extends ⅝" beyond end of channel permitting direct conduit connections **$0.33**



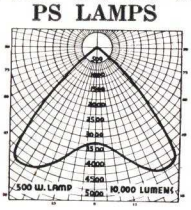
No. 181. Ballast holder strap. Two are needed for each ballast. Can also be used to clamp No. 16 coupling into CurtiStrip without screws **$0.25**



No. 501. Decorative end cap. Cast in modern tailored design, this end cap gives a finished appearance to unit. Always use No. 501 when unit is to be suspended with hangers having angle fittings **$0.87**

INCANDESCENT INDUSTRIAL UNITS
WITH "X-RAY" SILVER MIRROR REFLECTORS FOR 300- OR 500-WATT PS LAMPS





No. 588

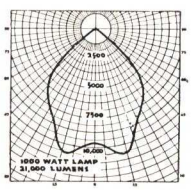
COEFFICIENTS								
Ceiling	75%			50%			30%	
Walls	50%	30%	10%	50%	30%	10%	30%	10%
Room Index J	.48	.45	.43	.47	.45	.43	.45	.42
I	.57	.55	.54	.56	.54	.53	.54	.52
H	.61	.60	.59	.60	.59	.58	.59	.57
G	.65	.64	.64	.64	.62	.62	.62	.61
F	.69	.67	.65	.66	.65	.64	.65	.63
E	.71	.70	.69	.70	.69	.67	.68	.67
D	.75	.73	.71	.73	.71	.71	.71	.70
C	.77	.75	.72	.75	.73	.71	.71	.71
B	.78	.76	.75	.76	.74	.73	.73	.72
A	.79	.77	.76	.77	.75	.74	.74	.73

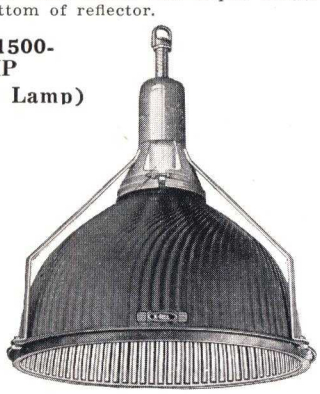
No. 588 consists of "X-Ray" Silver Mirror Reflector (12" diameter) socket and vibration proof holder. Socket shell has back outlet tapped for ½-inch conduit with ⅜-inch reducer. Height to top of socket 14¼ inches. Package, 4.

Cat. No.	Description	Pkg. Wt.	Price Each
588	Reflector Unit for 300- or 500-watt PS lamp (holder and ½-inch Mogul socket with ⅜-inch reducer included)	24	**$12.60**
588-R	Reflector only for 588	....	**11.15**
588-T	Reflector Unit (*)	29	**14.15**

*Includes No. 588 reflector with socket and tripod holder and supporting ring for bottom of reflector.

FOR 750-, 1000-, 1500-WATT PS LAMP (or 400-Watt Mercury Lamp)





No. 589

COEFFICIENTS								
Ceiling	75%			50%			30%	
Walls	50%	30%	10%	50%	30%	10%	30%	10%
Room Index J	.47	.45	.42	.45	.44	.42	.44	.41
I	.56	.53	.52	.54	.53	.51	.52	.50
H	.60	.59	.58	.58	.57	.57	.57	.56
G	.64	.63	.62	.62	.61	.60	.61	.59
F	.67	.65	.64	.64	.63	.62	.63	.61
E	.69	.68	.67	.68	.67	.65	.66	.65
D	.73	.71	.70	.71	.70	.69	.69	.68
C	.75	.73	.71	.73	.71	.70	.70	.69
B	.76	.74	.73	.74	.72	.71	.71	.70
A	.77	.76	.74	.75	.73	.72	.72	.71

No. 589 consists of an "X-Ray" Silver Mirror Glass Reflector (16" diam.), socket and vibration proof holder. Unit is provided with a loop fitting or loop can be discarded for mounting on ½-inch conduit. Height of unit to top of socket husk is 17½ inches. Standard package, 4.

Cat. No.	Description	Pkg. Wt.	Price Each
589	Reflector Unit for 750-1000-1500-watt PS lamp or 400-watt Mercury Lamp	65	**$20.85**
589-R	Reflector only for 589	....	**17.75**
589-T	Reflector Unit (*)	73	**25.90**

*Includes No. 589 reflector with tripod holder, retaining ring, socket and loop fitting.

CURTIS "X-RAY" REFLECTORS
"X-RAY" SHOW WINDOW LIGHTING

An "X-Ray" Reflector has been scientifically designed by Curtis for each type of light control. All "X-Ray" Reflectors have a pure silver reflecting surface and an exterior coating of Golden Armor which is guaranteed to protect the reflector against tarnishing, cracking, peeling, blistering or discoloring.

FOR DEEP WINDOWS

Deep show windows demand a uniform distribution of light throughout the window so that both merchandise in the foreground and the high background trim will be evenly illuminated.



Cat. No. 500

Cat. No. 500 "King" for 300, 200 or 150-watt Medium Base lamp. Adjustable holder included.
Price **$5.90**

Dimensions: Width 10"; Depth, front to back, 10½"; height, with holder, 10".

"ATTRACTION-ZONE" "X-RAY" REFLECTORS

These reflectors provide both good general window lighting and high-lighting of the "Attraction-Zone," that important sales area just below eye-level. No. 420 and No. 520 recommended for displaying small merchandise in shallow windows; for larger windows or super lighting use No. 1010.



Cat. No. 530

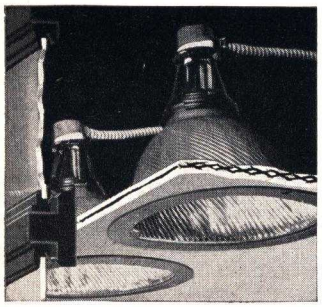
Cat. No. 530 "Monarch" for 300-, 200-, or 150-watt Medium Base lamp. Price **$5.60.** Dimensions: Diam. 9¾". Height, with holder, 9 1/16". Holder included: No. 10668 — fits standard porcelain, "X-Ray," or CurtiStrip sockets with shade holder groove. Accessories: Finishing Flange No. 14026; Plaster Ring No. 14028; Louver, extra accessory No. 12531 (U-type).

Cat. No. 420 "Master" for 150- or 100-watt lamp. Price **$4.85.** Dimensions: Diam. 8⅝"; Height, with holder, 7 1/16". (Holder included.) Accessories: Finishing Flange No. 10517; Plaster Ring No. 14027; Louver No. 12420, (U-type.)

Cat. No. 1010 "Blimp" for 500- or 300-watt Mogul Screw Base lamp. Price **$12.25.** Dimensions: Diam. 13"; Height, with holder and socket, 12⅜". (Holder and socket included.) Accessories: Finishing Flange No. 14110; Plaster Ring No. 14111.

CURTIS "X-RAY" REFLECTORS

RECESSING WINDOW REFLECTORS



Finishing Flanges and plaster-rings are used in recessing "X-Ray" Reflectors above the show window ceiling. On wood or board ceilings, flanges only are used to finish off the opening and to support the reflector in the proper position. The exposed face of the flange may be painted at the same time as the ceiling. When recessing is done in plaster ceilings, it is necessary to use a plaster-ring as a frame for the opening and serves also as a base for mounting the finishing flange.

Finishing Flanges

Cat. No.	For Reflector	Std. Pkg. of 10 Weighs Lbs.	Price Each
10517	420 Master	5*	**$1.42**
11500	500 King	22*	**4.10**
14026	530 Monarch	6*	**2.00**
14110	1010 Blimp	26*	**2.00**

Plaster-Rings

14027	10517 for 420	7*	**1.03**
14028	14026 for 530 Monarch	7*	**1.12**
14111	14110 for 1010 Blimp	26*	**1.42**

Louvers for "X-Ray" Show Window Reflectors

12420	No. 420 Master	1	**5.35**
12531	No. 530 Monarch	1	**5.35**

*These items are bulk packed. Number shown as standard package is standard quantity for pricing purposes only.

CURTIS RECESSED LIGHTING EQUIPMENT

Curtis offers here a complete and versatile line of high-intensity recessed lighting equipment now available from standard stocks.

Recessed lighting is a popular and efficient method of illumination which harmonizes with the modern streamlined interiors of today. Curtis recessed units may be installed as the only source of illumination, or they may be used in combination with indirect pendant luminaires or indirect cove lighting to step-up the general illumination level. Units may also be used in combination with fluorescent luminaires.

SELECTING AND SPACING OF RECESSED EQUIPMENT

The design of the "X-Ray" reflector in Curtis Recessed units determines the type of light distribution — distributing, semi-concentrating or concentrating. Select the recessed units for a given location according to the type of light-control desired, and use the following as a general guide for spacing.

DISTRIBUTING UNITS, when used to produce lighting of fairly uniform intensity, should be spaced 1½ to 1¾ times the distance from the working plane to the unit.

CONCENTRATING UNITS are usually installed over display cases and in locations where it is desired to obtain emphasis in lighting. Concentrating units are rarely used for uniform lighting. Beam coverage is ⅓ of the mounting height above the counter.

CURTIS RECESSED LIGHTING EQUIPMENT

TYPES OF CURTIS RECESSED UNITS

The fundamental scheme of all Curtis recessing equipment (excent shallow units) is the same — a Silver Mirror "X-Ray" Reflector mounted above a framed ceiling opening. The various units differ in size, reflector type. method of mounting, and the character of the "frame" and fittings (lens, louver, etc.) that go into it. The three types are as follows: Economy Reflector Units, Hinged Rim Units, and Metal Housed Units.

ECONOMY REFLECTOR UNITS

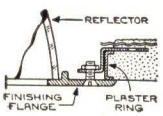


Plain Recessed Unit

Where no lens is required, an inexpensive type of recessed lighting is provided by "X-Ray" Reflectors which rest directly on a ceiling flange.

Complete Economy Recessed unit catalog numbers include ceiling flange, "X-Ray" Reflector, socket and shell with side outlet. For plaster ceilings, a light weight "plaster-ring" (not included in complete unit numbers) is generally used as a support for mounting ceiling flange. These units do not carry Underwriters' Recessing Labels but are suitable for fireproof or semi-fireproof construction where local inspection will approve.

Detail of installation in plaster ceiling.



Plain Reflector Units

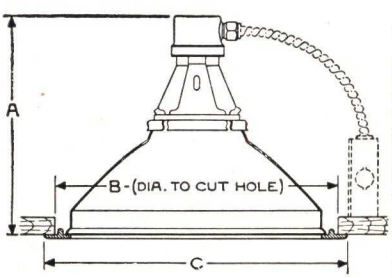
Complete Unit No.	Wattage and Distribution	*Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Complete Unit	Plaster Ring If Required Cat. No.	Plaster Ring If Required Price Each
2120H‡	500 or 300 (distributing)	4	34	**$17.00**	**14312**	**$1.17**
2122	500 or 300 (distributing)	4	36	**12.00**	**14312**	**1.17**
2124	500 or 300 (distributing)	6	50	**12.35**	**14111**	**1.42**
2125	500 or 300 (concentrating)	6	50	**12.35**	**14111**	**1.42**
2126	200 or 300 (distributing†)	8	32	**8.85**	**14028**	**1.12**
2127	200 or 300 (distributing)	12	85	**9.25**	**14035**	**1.12**
2128	200 or 300 (concentrating)	10	70	**9.25**	**14035**	**1.12**
2130H‡	300 or 200 (distributing†)	8	44	**13.25**	**14028**	**1.12**
2132	100 (distributing)	24	70	**6.65**	.....	.....

*These items are bulk packed. Number shown as standard package is standard quantity for pricing purposes only.

‡These units include a concentric snap-in louver, finished light matte gray.

†Use medium base lamps.

Dimensions for Installing Plain Recessed Reflector Units



Unit No.	Dimens. In A*	B	C
2120H	13⅜	12½	14½
2122	13⅜	12½	14½
2124	11⅛	13⅝	15⅜
2125	11⅛	13⅝	15⅜
2126	10⅞	10	12
2127	9⅜	11⅛	13¼
2128	11	11⅛	13¼
2130H	10⅞	10	12
2132	7⅝	6⅜	7⅝

*Add ½" to allow minimum clearance for removal of reflector from flange.

PITTSBURGH PERMAFLECTORS
FOR SHOW WINDOW LIGHTING



No. 55

Height with Adapter..6⅞"
Opening Circular, dia. 8½"
Lamp Size—150 Watt PS-25.
Standard Quantity.....10
Price: Including Adapter No. 35.....**$5.61**

No 110

Height with Adapter..8¼"
Opening Circular, dia. 8½"
Lamp Size—150 Watt PS-75.
Standard Quantity 10
Price: Including Adapter No. 35.....**$5.61**



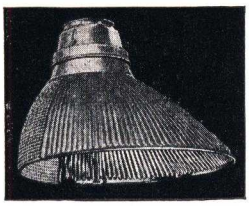


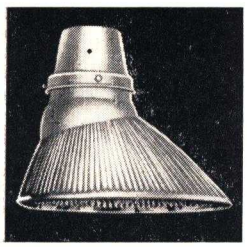
No. 77-A

Height .....5"
Opening Circular, dia. 7"
Holder: 2¼" Form "SR" or "S"
Lamp Size—100 watt A-21
Standard Quantity 12
Price **$4.09**

No. 112

Height with Adapter.....8"
Opening Circular, dia. 9½"
Lamp Size:
150w A-25 or 200w PS-30
Standard Quantity 8
Price: Including Adapter No. 36.....**$6.67**





No. 57

Height with Adapter..7½"
Opening Circular, dia. 8½"
Lamp Size—150 Watt PS-25.
Standard Quantity 10
Price: Including Adapter No. 35 .....**$5.61**

No. 54

Height with Adapter.....8"
Opening Circular, dia. 9½"
Lamp Size—200 Watt PS-30.
Standard Quantity 8
Price: Including Adapter No. 36 .....**$6.24**



PITTSBURGH PERMAFLECTORS
FOR SHOW WINDOW LIGHTING



No. 105

Height with Adapter..9⅜"
Opening Circular, dia. 9½"
Lamp Size—200 Watt PS-30.
Standard Quantity 10
Price: Including Adapter No. 36 .....**$6.30**

No. 85

Height with Adapter..7½"
Opening Circular, dia. 8½"
Lamp Size—200 watt PS-30.
Standard Quantity 6
Price: Including Adapter No. 36 .....**$6.24**



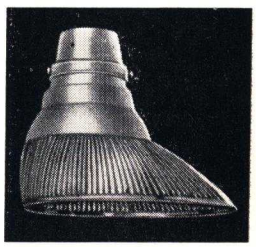


No. 56

Height with Adapter.....8"
Opening Circular, dia. 9½"
Lamp Size—200 Watt PS-30.
Standard Quantity 8
Price: Including Adapter No. 36 .....**$6.24**

No. 99

Height with Adapter.....8"
Opening Circular, dia. 9½"
Lamp Size—200 watt or 300 watt, PS-30 medium base.
Standard Quantity 4
Price: Including Adapter No. 30 .....**$7.11**





No. 555

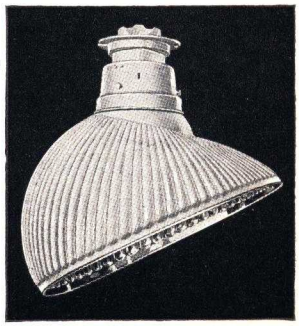
Height .....11⅜"
Opening Circular, Diameter .....12½"
Lamp Size—500 watt PS-40 or 300 watt PS-35.
Standard Quantity 1
Price: Including Outlet Box Cover Assembly No. B-3 and Holder No. M-3 .....**$14.07**

No. 555-B—Same as Permaflector No. 555 except equipped with Box No. KO-11.....**$15.19**

No. 500

Height .....12¾"
Lamp Size—500 watt PS-40 or 300 watt PS-35.
Standard Quantity.. 1
Price: Including Outlet Box Cover Assembly No. B-3 and Holder No. M-3.....**$13.70**

No. 500-B—Same as No. 500 except equipped with Box No. KO-11 .....**$14.82**



PITTSBURGH PERMAFLECTORS

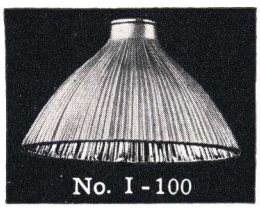


NO. I-75

Height .....4¾ In.
Diameter .....8⅜ In.
Lamp — 60 Watt A-19 with 2¼" Form "SR" or "S" Holder; 100 Watt A-21 with 2¼" Form "SLR" or "SL" Holder.
Standard Quantity ..10
Price **$4.26**

NO. I-100

Height .....5⅞ Inches
Diameter .....9¾ Inches
Lamp — 150 Watt A-25 with 2¼" Form "LR" or "L" Holder.
Standard Quantity 10
Price **$4.63**





No. I-505-B

NO. I-505

Height .....14⅝ In.
Diameter .....16 In.
Lamp — 300 Watt PS-35; 500 Watt PS-40.
Standard Quantity 1
Price, including Outlet Box Cover Assembly No. B-3 and Holder No. M-3.....
.....**$23.70**

No. **I-505-B** equipped with box No. KO-19-½, mogul socket and M-3 holder. Also available with box No. KO-19-¾. Price.....**$25.48**

No. **I-505-S** removable enclosed in one-piece aluminum shell. Lamps: 500-watt P-S-40 or 300-watt PS-35. Price.....**$36.19**

No. I-1005-A

Height .....8 9/16 In.
Diameter .....16 In.
Lamp—1000 Watt or 750 Watt PS-52.
Consists of: Permaflector No. I-1005 GO, Mogul Socket No. 4, Holder No. 14-B, 4-inch outlet box 2⅛" deep.
Standard Quantity 1
Price.....each **$24.82**



No. I-1005-B

No. **I-1005-B** same as No. I-1005-A, except equipped with Box No. KO-19-½. Also Available with Box Uo. KO-19-¾.....**$26.02**

PITTSBURGH PERMAFLECTORS

NO. E-25-A



No. E-25-A

Height .....3½ Inches
Diameter .....4½ Inches
Lamp — 25 Watt A-19 with 2¼" Form "SR" or "S" Holder; 60 Watt A-21 with 2¼" Form "SLR" or "SL" Holder.
Standard Quantity 20
Price **$2.41**

NO. E-26

Height .....3 7/16 In.
Diameter .....5⅝ In.
Lamp — 25 W. A-19 with 2¼" Form "SR" or "S" Holder; 60 Watt A-21 with 2¼" Form "SLR" or "SL" Holder.
Standard Quantity ..10
Price **$2.63**





NO. E-75

Height .....4¾ In.
Diameter .....6¾ In.
Lamp — 60 Watt A-19 with 2¼" Form "SR" or "S" Holder; 75 or 100 Watt A-21 with 2¼" Form "SLR" or "SL" Holder.
Standard Quantity 8
Price **$3.98**

No. E-150

Height with Adapter .....7 7/16 In.
Diameter .....8½ In.
Lamp—150 Watt PS-30.
Standard Quantity 7
Price, including Adaptor No. 35.....each **$5.65**





No. E-230

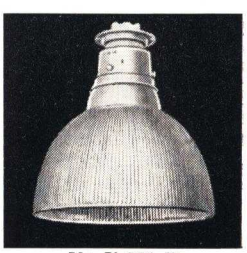
Height, with Adapter .....8 7/16 In.
Diameter .....9½ In.
Lamp—200 Watt PS-30.
Standard Quantity 5
Price, including Adaptor No. 35.....**$6.54**

NO. E-500

Height .....12⅜ In.
Diameter .....11⅞ In.
Standard Quantity 1
Price **$13.63**

NO. E-500-B

Equipped with box KO-19-½ mogul socket and M-3 holder. Also available with box No. KO-19-¾.
Price **$15.41**



No. E-500-B

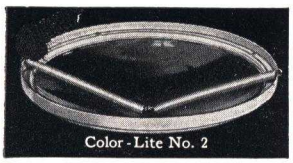
No. **E-500-S**—This model is removably enclosed in one-piece aluminum shell. Price.....**$23.22**

PERMAFLECTOR COLOR-LITES

For Use in Window Lighting, Cove Lighting and Other Interior Service

GLASS COLOR-LITES

(For External Mounting)

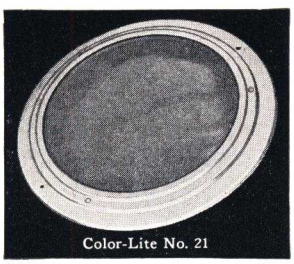

Color-Lite No. 2

Description — Consist of retainer frame with coiled springs and one pressed glass roundel in any of the colors listed. A permanent color filter not subject to the faults of gelatines which fade, shrink and wrinkle. To attach merely hook the springs in holes of adapter or holder; to remove, unhook. Neither lamp nor Permaflector need be removed.

GLASS COLOR-LITES

(For Flush Mounting)

Description — Consist of frame which may be attached to flush mounting ring by means of knurled head screws, and one pressed glass roundel in any of the colors listed.


Color-Lite No. 21

These Color-Lites equipped with uncolored stippled roundel, used with flush mounted reflectors, make an inexpensive substitute for Hinged Ceiling Roundels.

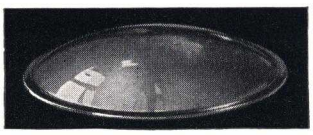
For External Mounting

Color-Lite No.	Dia. of Frame	Dia. of Roundel Only	Std. Qty.	Price Each	Standard Colors Available
2	10⅛"	9 7/16"	7	$2.25	Red, Blue, Green, Amber, Moonlight
6	8⅝"	8"	10	2.00	
16	7¼"	6½"	12	1.50	
8	13⅝"	13"	5	9.75	Red, Blue, Green, Amber
10	11¾"	10¾"	7	5.00	
12-A	4¾"	4 3/16"	36	1.25	
2-DB	10⅛"	9 7/16"	7	3.75	Daylight
6-DB	8⅝"	8"	10	3.40	
10-DB	11¾"	10¾"	7	6.25	
12-ADB	4¾"	4 3/16"	36	2.15	
16-DB	7¼"	6½"	12	2.25	

For Flush Mounting

21	11⅞"	9 7/16"	7	2.25	Red, Blue, Green, Amber, Moonlight
41	9"	6½"	12	1.35	
61	10⅜"	8"	10	2.00	
21-DB	11⅞"	9 7/16"	7	3.75	Daylight
41-DB	9"	6½"	12	2.10	
61-DB	10⅜"	8"	10	3.40	

COLOR-LITES F SERIES



Description — Pressed glass roundels for use with Permaflectors, Floodlights, Luminaires, Color-Lite frames and other colored lighting applications.

When used in floodlight, roundel shall be installed inside unit under protection of heat resisting glass cover.

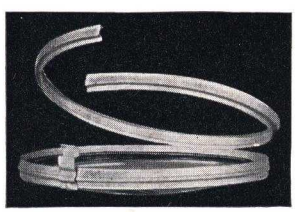
Glass Roundels — Standard Colors

Color-Lite No.	Diameter	Standard Quantity	Price Each	Standard Colors Available
F-12	4 3/16"	50	$0.50	Red, Blue, Green, Amber
F-13	13"	5	7.50	
F-2	8"	10	1.40	Red, Blue, Green, Amber, Moonlight
F-4	9 7/16"	10	1.40	
F-7	5½"	60	.55	
F-8	6½"	20	.75	
F-9	8⅜"	20	1.40	

Daylight Glass Roundels

F-2DB	8"	10	2.80	Daylight
F-4DB	9 7/16"	10	3.00	
F-7DB	5½"	60	1.35	
F-8DB	6½"	20	1.50	
F-10DB	10¾"	7	4.75	
F-12DB	4 3/16"	50	1.40	

COLOR-LITE NO. 4-A (GLASS)


Color-Lite No. 4-A

Description—An improved design of Color-Lite. For use with Permaflectors Nos. 29, 73, P-75-A, P-151, P-101, P-201, E-75, I-60, Interior Flood No. WF-100.

It consists of a split ring which closely fits around the rim of Permaflctor. The colored glass roundel sets in frame hinged to the split ring. A spring clasp holds the cover closed.

Colored roundel is fastened in cover ring by a split wire ring which fits in a groove in the cover rim. Diameter 6¾ inches. Standard Quantity, 12.

Price Each **$1.75**

COLOR-LITE NO. 4-ADB (GLASS)

Description—Same as Color-Lite No. 4-A except it is equipped with inside stippled daylight glass roundel. Standard Quantity, 12.

Price Each **$2.50**

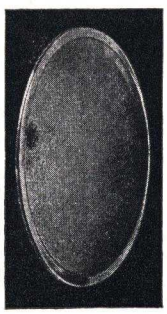
GLASS ROUNDELS

HEAT-RESISTING GLASS ROUNDELS

Heat-resisting Glass Roundels for use with recessed interior spots and floodlights where wattage is 300 watts, or more. All floodlights or spot lights used outdoors should be equipped with these heat-resisting Glass Roundels.



Clear



Stippled



Spread

C—Clear D—Dioptric ST—Stippled SP—Spread

Diameter	Type	Standard Quantity	Price Each
8″	C	10	**$3.00**
8″	ST	10	**3.00**
8⅜″	ST	10	**3.00**
9 7/16″	C	10	**4.39**
9 7/16″	ST	10	**4.39**
9 7/16″	D	12	**4.63**
10¾″	C	7	**6.57**
10¾″	ST	7	**6.57**
12″	C	6	**7.39**
12″	ST	6	**7.96**
12″	SP	6	**7.96**
13¾″	ST	5	**9.61**
15¾″	ST	4	**11.85**
15¾″	C	4	**11.85**
18¾″	C	1	**20.43**
18¾″	ST	1	**20.43**

NON-HEAT-RESISTING GLASS ROUNDELS

ST—Stippled PR—Prismatic

Diameter	Type	Standard Quantity	Price Each
4 3/16″	ST	50	**$0.78**
5½″	ST	60	**.78**
6½″	ST	20	**1.09**
8″	ST	10	**2.09**
8⅜″	ST	20	**2.09**
8⅜″	PR	20	**2.09**
9 7/16″	ST	10	**2.09**
10¾″	ST	10	**2.76**

Note: When ordering specify size and type.

ROUNDELS

HINGED CEILING ROUNDELS



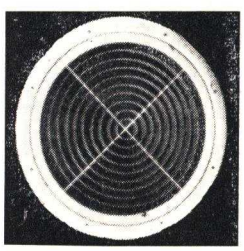
Used for recessed lighting equipment, where it is desired to completely conceal the reflector and lamp. Hinged member contains stippled colorless roundel, which effectively conceals the lamp and reflector, but does not materially alter the character of the light distribution from the reflector.

The ceiling flange may be attached directly to the ceiling or to the plaster ring in the case of plastered ceilings. It supports the reflector equipment.

For gymnasium lighting, handball courts, etc., Hinged Ceiling Roundels No. 1-B, 2-B, 3-B, and 6-B are available equipped with wire guard at an extra charge.

Roundel No.	Frame Diam.	Glass Diam.	Diam. Hole in Ceiling	Std. Qty.	Price Each
1-B	11¼″	8⅜″	9¾″	10	**$6.06**
2-B	15¼″	12 ″	13⅜″	4	**13.63**
3-B	19½″	15¾″	17¼″	5	**13.89**
4-B	9¼″	6½″	7⅞″	10	**4.89**
6-B	12¼″	9 7/16″	10¾″	8	**7.43**
7-B	11¼″	8⅜″	9¾″	8	**6.06**
8-B	14¼″	10¾″	12½″	10	**7.93**
9-B	15¼″	12 ″	13⅜″	4	**8.33**
10-B	17½″	13¾″	15½″	5	**17.63**
11-B	8¼″	5½″	1″	10	**4.44**

HINGED CONCENTRIC LOUVERS



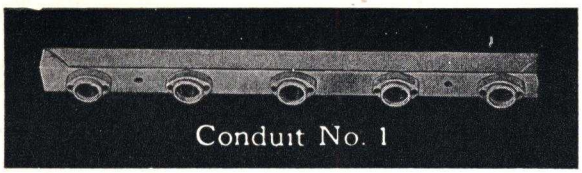
Hinged concentric louvers are similar and serve a similar purpose as the hinged ceiling roundels. Construction is the same except that the hinged member carries concentric louver vanes instead of the roundel. Louver vanes are stepped from the center outward giving a slightly convex contour to the assembly similar to the roundels.

The louvers serve the purpose of concealing the light source from normal viewing angles and when viewed from a distance and at relatively flat angles give the illusion of luminous glass. Louvers permit the sharply downward distribution of light to pass through between vanes with but slight loss. At high angles they cut off completely and for this reason are preferred by many.

Since louvers also provide mechanical protection for the Permaflector, wire guards are unnecessary.

Louver No.	Overall Frame Diam.	Diam. Hole in Ceiling	Standard Quantity	Price Each
1-B	11¼″	9¾″	10	**$6.06**
2-B	15¼″	13⅜″	6	**8.89**
3-B	19½″	17¼″	5	**8.33**
4-B	9¼″	7⅞″	12	**4.89**
6-B	12¼″	10¾″	10	**6.80**
7-B	11¼″	9¾″	10	**6.06**
8-B	14¼″	12½″	10	**7.26**
9-B	15¼″	13⅜″	6	**8.89**
10-B	17½″	15½″	5	**6.44**
11-B	8¼″	7″	10	**4.44**

EASY-TO-INSTALL CONDUIT



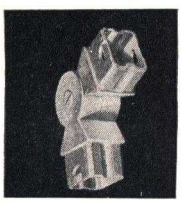
Easy-to-Install Conduit No. 1

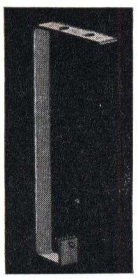
20-gauge galvanized steel channel, fitted with socket No. 1, not wired. Size 1⅜ inches high by 1¾ inches wide. Any Permaflector of 300 watt medium base lamp capacity or less, except the P-type, may be used with Conduit No. 1. End caps free with conduit.

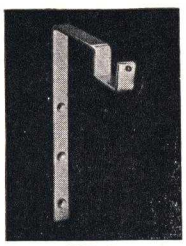
Price, per outlet, 12-inch OC spacing.....**$1.61**

For wider spacings add **$0.07** per outlet for each additional inch above 12 inches. For lesser spacings deduct **$0.07** per outlet for each inch less than 12 inches. Disregard fractions of an inch.

Convenience Outlets, Socket No. 1, each.....	**.61**
Convenience Outlets, flush plug, each.....	**.81**
Flexible Joints, No. FJ-1, each.....	**3.26**
Ceiling Hangers, No. CH-1, each.....	**1.19**
Brackets (transom bar) No. BR-1, each.....	**1.06**
Additional end caps, No. EC-1.....	**.57**
U-Straps, No. U-1, each	**.24**


FJ-1


CH-1


BR-1

Easy-to-Install Conduit No. 2-A

Same as No. 1, but equipped with angle sockets No. 3. Uses Permaflectors No. P-25, P-40, P-75-A, P-76, P-101, P-151. Same fittings as Conduit No. 1.

Price, per outlet, spaced 12-inch OC.....**$2.98**

For wider or lesser spacing add or deduct **$0.07** per outlet per inch.

Easy-to-Install Conduit No. 6

Similar to No. 1. For use with Permaflectors No. 500, 555, C-300, E-500 which attach directly to Conduit No. 6 or to 4-inch outlet box. Size 2¾ inches wide by 2 1/16 inches high.

Price, per outlet, spaced 12-inch OC..... **$1.50**

For wider or lesser spacing add or deduct **$0.07** per outlet each inch. End caps free.

Additional End Caps, EC-6, each.....	**$0.57**
Flexible Joint, FJ-6, each.....	**4.02**
U-Straps, U-6, each.....	**.43**

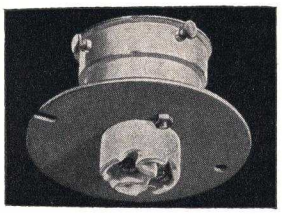
ADDITIONAL CONDUIT FITTINGS

Standard quantity — One when ordered with Conduit.

For Use with Conduit Nos. 1 and 2-A:	Price Each
Convenience Outlets	
Using Socket No. 1.....	**$0.61**
Using Flush Plug Receptacle.....	**.81**
Flexible Joint No. FJ-1.....	**3.26**
U-Strap No. U-1.....	**.24**
Additional End Caps No. EC-1.....	**.57**
Transom Bar Bracket (Vertical Member 10" long)	**1.06**
Ceiling Hanger No. CH-1 (Lengths 6, 8, 10, 12, 14, 18, 20).....	**1.19**

OUTLET BOX COVER ASSEMBLIES

SERIES B-1

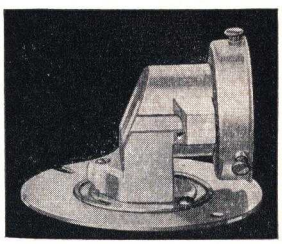


Consists of a 3¼- or 4-inch outlet box cover, equipped with Porcelain Socket No. 1. Fits standard 3¼-inch or 4-inch outlet box having depth of 1½ inches. May be used with Adapters No. 1234 and 1256, Form S, L, or LC holders and any Permaflector.

For Use with Outlet Box— 3¼-Inch Assembly No.	4-Inch Assembly No.	Including Holder No.	Std. Quan.	Price Each
B-1-3-¼	B-1-4	None	50	**$0.83**
B-1-3-¼-S	B-1-4-S	2¼" Form S	50	**1.39**
B-1-3-¼-SL	B-1-4-SL	2¼" Form SL	50	**1.48**
B-1-3-¼-L	B-1-4-L	2¼" Form L	50	**1.39**
B-1-3-¼-LC	B-1-4-LC	2¼" Form LC	50	**1.48**

SERIES B-2

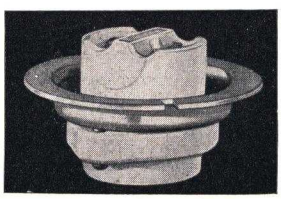
For jobs where the cove is a circle or ellipse with short radius. In such coves it is not practicable to use "Pittsburgh" Conduit because of the curvature.



The assembly No. B-2-3¼-S and B-2-3¼-L of outlet box cover, angle socket and shade holder illustrated herewith makes it convenient to use the Permaflectors No. P-25, P-40, P-75-A, P-76, P-101, P-151, and P-201, in cove lighting work.

For Use with Outlet Box— 3¼-Inch Assembly No.	4-Inch Assembly No.	Including Holder No.	Std. Quan.	Price Each
B-2-3-¼	B-2-4	None	50	**$1.78**
B-2-3-¼-S	B-2-4-S	2¼" Form S	50	**2.33**
B-2-3-¼-SL	B-2-4-SL	2¼" Form SL	50	**2.43**
B-2-3-¼-L	B-2-4-L	2¼" Form L	50	**2.33**
B-2-3-¼-LC	B-2-4-LC	2¼" Form LC	50	**2.43**

SERIES B-3



No. B-3 consists of Pittsburgh Mogul Socket No. 4, with 4-inch outlet box cover, raised cover. Fits any 4-inch outlet box 1⅝ inches deep. Used with Permaflectors No. 500, 555, C-300-A, C-500-A, E-500, I-505, I-1001, B-508, B-1001, 990. Qty. 50.

Price Each **$1.87**

PORCELAIN SOCKETS



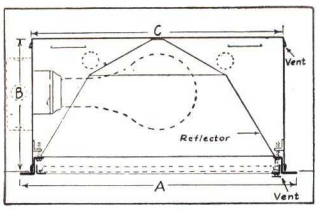




No. 1 Porcelain Socket .....each	**$0.44**
No. 3 Porcelain Angle Socket .....each	**1.31**
No. 4 Porcelain Mogul Socket .....each	**1.44**
No. 5 Same Body as No. 4 for 3-Light Lamp .....each	**1.83**

K

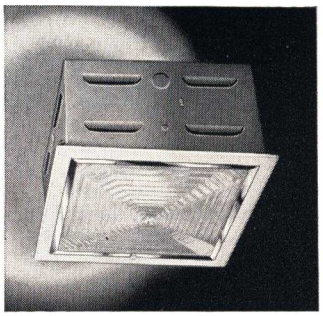
KIRLIN RECESSED LIGHTING
Flush With Ceiling



INCANDESCENT—Square Models

With square Alzak reflectors.

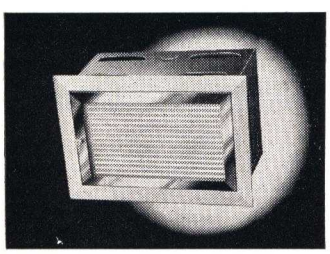
Standard finish, Satin stainless door, white ground coat frame, non-ferrous No. 1218 steel frame, chrome plated steel door. All units can be supplied with shock-proof glass on special order, or with top of box removable for relamping from above ceiling. All have Und. Lab. Labels. Satin chrome frames also available.



For Wide Distribution of Light		Size for Ceiling Opening	For Concentrating Beam of Light	
Cat. No.	Maximum Watts		Cat. No.	Maximum Watts
1207	60—100	7¾ x 7¾ x 5⅛" deep	-------	------
1208	75—150	9¼ x 9¼ x 5½" deep	**1409**	150
1212	200—300 med.	13¼ x 13¼ x 7⅝" deep	**1412**	300
1218	300—500 mog.	19⅜ x 19⅜ x 13 " deep*	-------	------
1512†	200—300 med.	13¼ x 13¼ x 7⅝" deep	-------	------

*Lamp vertical.

†Same as No. 1212 except with clear center in lens for Dining Rooms and Jewelry Stores.



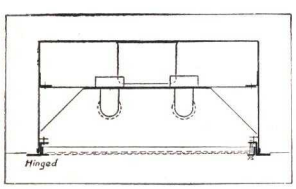
INCANDESCENT—Rectangular Models

No. 414-75W T10 tubular lamp. Box 14⅛x3¾x4 inches deep. No. 508-100W. Box 8½x5½x6 inches deep. Standard finish, satin stainless door, white ground coat frame. Alba-lite Corning glass; Alzak reflector.



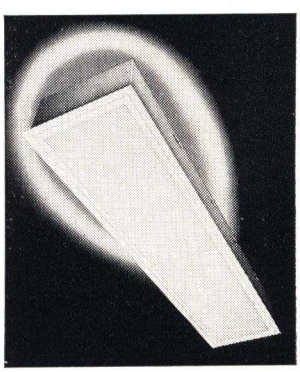
EXITS—Recessed Flush

No. 4506, 6 in. letters, Box 8⅝x13½x3⅝ inches deep. No. 4516 "No-Guard," same size. May be had with two sockets at extra charge. "No-Guard" type hinged exit requires no guard in Gymnasiums, as strong as the wall. White letters, red or green background. No. 4507 "V" type, surface mounted.



FLUORESCENT—Recessed Flush with Ceiling

All units with Und. Lab. Labels, designed for wide distribution of light, lamps spaced 3½" for maximum efficiency. H.P.F. ballasts, reflectors baked synthetic enamel, hinges concealed. Two lamp units fit 12-in. acoustic tile ceilings. Standard finish, white ground coat for painting. Frames are separate from box and adjustable. Individual sections or continuous runs.



Hinged Door Type Alba-lite Glass	Size for Ceiling Opening in Inches	Open Troffer Type (Louvers Extra)†
220B	2-20w 11¾ x 24½ x 6¼ deep	220TR
420B	4-20w 16⅜ x 24½ x 6¼ deep	420TR
230B	2-30w 11¾ x 36½ x 6¼ deep	230TR
240B	2-40w 11¾ x 48½ x 6¼ deep	240TR
340B	3-40w 11¾ x 48½ x 6¼ deep	340TR
440B	4-40w 16⅜ x 48½ x 6¼ deep	440TR

†Egg Crate or Disc Louvers.

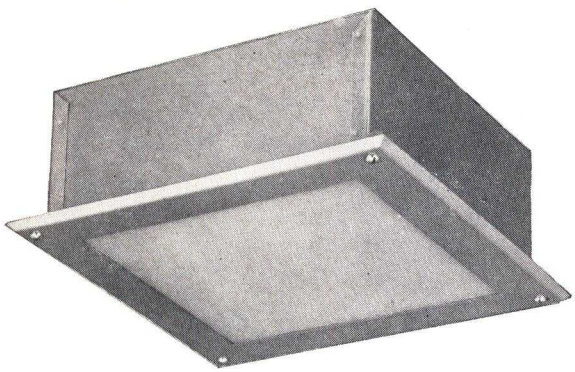
KIRLIN DISC LOUVER—For fluorescent lamps, snap on quickly, white enamel baked finish on spring steel. Discs may be interlocked on 2 lamps or more. 48 in. louver weighs 11 oz. The original disc-louver. A full size louver, 4¼ inches wide.



No. 60D length 60" 100w
No. 48D length 48" 40w
No. 36D length 36" 30w
No. 24D length 24" 20w
No. 18D length 18" 15w

ATLITE LIGHTING FIXTURES

FLUSH RECESSED INCANDESCENT SQUARE AND OBLONG UNITS



No. 880

Specifications as listed by Underwriters' Laboratories, Inc. All recessed fixtures are equipped with reflectors. Recessed boxes are made of steel and all joints are electrically welded. Frames are equipped with frosted glass, and are mounted with special construction for adjusting. Porcelain sockets furnished are listed by Underwriters' Laboratories, Inc.

These U.L. recessed fixtures are made with asbestos heat insulation, constructed in accordance with specification of Underwriters' Laboratories, Inc.

Cat. No.	Box Size Inches	Frame Size Inches	Depth Ins.	Lamp Wattage	Std. Pkg.	List Price
470C	4¾x 7¾	8 x 8	4	60	12	**$5.10**
660C	6¾x 6¾	8 x 8	4	60	12	**5.10**
510C	6¼x10¾	7½x12	4	100	6	**6.35**
880C	8¾x 8¾	10 x10	4	100	12	**6.35**
1010C	10¾x10¾	12 x12	4¼	150	6	**8.70**
1212C	12¾x12¾	14 x14	5½	200–300	6	**9.80**

Suffix "C" denotes chrome finish. Other finishes available.

HINGED SEMI-FLUSH DECORATIVE UNITS



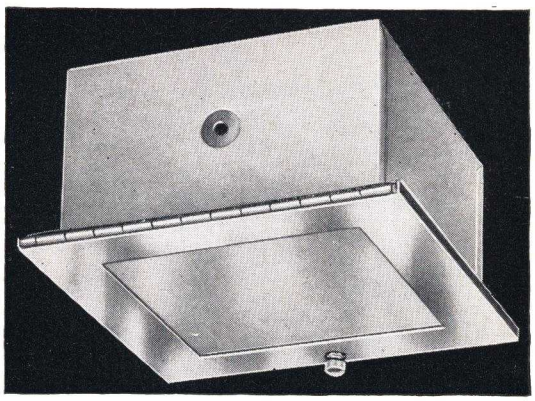
No. 81

Decorative semi-flush moulded glass panel. Designed for engineered lighting.

Cat. No.	Box Size Inches	Frame Size Inches	Depth Inches	Lamp Wattage	List Price
41	4⅜x 7¾	6 x 9	4	60	**$8.78**
61	6¾x 6¾	8 x 8	4	60	**8.78**
511	6¼x10¾	7½x12	4	100	**11.00**
81	8¾x 8¾	10 x10	4	100	**11.00**
111	10¾x10¾	12 x12	4¼	150	**13.22**
121	12¾x12¾	14 x14	5½	200–300	**15.45**

ATLITE LIGHTING FIXTURES

HINGED SQUARE AND OBLONG UNITS

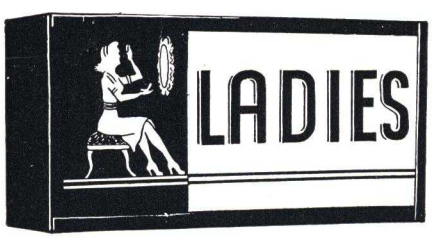


No. 880 H

Specifications same as listed for No. 880 fixture, except that these frames are hinged with piano hinges for simple relamping and maintenance. Frames finished in chrome (can be obtained in other finishes upon request).

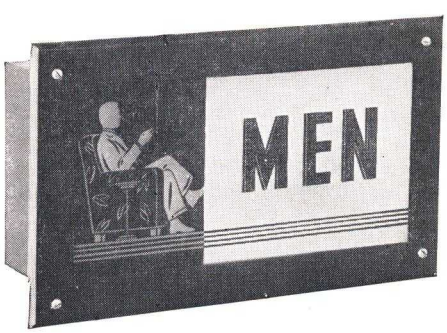
Cat. No.	Box Size Inches	Frame Size Inches	Depth Ins.	Lamp Wattage	Std. Pkg.	List Price
470H	4¾x 9	6 x 9	4	60	12	**$5.60**
660H	6¾x 8	8 x 8	4	60	12	**5.60**
510H	6¼x12	7½x12	4	100	6	**7.00**
880H	8¾x10	10 x10	4	100	12	**7.00**
1010H	10¾x12	12 x12	4¼	150	6	**9.55**
1212H	12¾x14	14 x14	5½	200–300	6	**10.70**

DIRECTIONAL SIGNS—SURFACE TYPE



Cat. No.	Letters	Box Size Inches	Depth Inches	Std. Pkg.	List Price
127	Ladies	6 x 12	4	12	**$3.35**
129	Men	6 x 12	4	12	**3.35**

DIRECTIONAL SIGNS—RECESSED TYPE



Cat. No.	Letters	Box Size Inches	Depth Inches	Std. Pkg.	List Price
2127	Ladies	6¾ x 12¼	4	6	**$7.20**
2129	Men	6¾ x 12¼	4	6	**7.20**

ATLITE LIGHTING FIXTURES

DIRECTIONAL SIGNS—SURFACE TYPE CANOPY BACK



No. 1016

Cat. No.	Letters Inches	Box Size Inches	Depth Inches	Std. Pkg.	List Price
608	4	6 x 8	4	12	**$2.80**
709	5	7 x 9	4	12	**3.65**
812	6	8 x 12	4	6	**5.00**
1015	8	10 x 10	4	6	**5.60**
1016	8	10 x 16	4	6	**5.60**

DIRECTIONAL SIGNS—RECESSED TYPE



Cat. No.	Letters Inches	Box Size Inches	Frame Size Inches	Dpth. In.	Std. Pkg.	List Price
810	4	6¾ x 8¾	8½ x 10½	4	12	**$5.20**
911	5	7¾ x 9¾	9½ x 11½	4	6	**5.90**
1115	6	8¾ x 12¾	11 x 15	4	6	**6.20**
1319	8	10¾ x 10¾	12 x 12	4	6	**8.00**

Colors available for Directional Signs:
Letters —Red White Green White
Background—White Red White Green

These fixtures can be furnished with directional arrows at an additional cost.

Fixtures can be furnished wired at an additional cost.

Facilities for 2 sockets can be supplied upon request.

All fixtures carry I.B.E.W., A.F.L. Local 3 labels.

DAY-BRITE EXIT SIGNS



Surface Type



Flush Type

Inexpensive exit signs of sturdy construction, manufactured of steel as listed. Boxes on flush type signs are made of 16-gauge steel, and on surface type are made of 20-gauge steel. Hinged frames are made of rolled steel molding. Each box has two sockets on wireway. Fixtures are furnished unwired.

Schedule "S" Discounts

Flush Type — Removable Frame

Cat. No.	Size Letters Inches	Overall Trim Hgt. In.	Overall Trim Wdt. In.	Box Size Hgt. In.	Box Size Wdt. In.	Box Size Dpth. In.	Wt. Lbs.	Price Each
2850	5	8¼	12½	7⅛	11¼	3½	15	**$11.80**
2851	6	9¼	13½	8⅛	12¼	3½	17	**12.80**
2852	8	11¼	15½	10⅛	14¼	3½	19	**14.90**

Flush Type — Hinged Frame

3010	5	8	12¼	7⅛	11¼	3½	16	**22.60**
3011	6	9	13¼	8⅛	12¼	3½	18	**24.20**
3012	8	11	15¼	10⅛	14¼	3½	20	**26.80**

Surface Type — Slide-in Glass

2870	5	....	....	7	11¼	3½	12	**12.20**
2871	6	....	....	8	12⅛	3½	13	**13.70**
2872	8	....	....	10	13¾	3½	15	**15.80**

Surface Type — Hinged Frame

3030	5	....	....	8	12¼	3½	12	**19.00**
3031	6	....	....	9	13¼	3½	13	**21.20**
3032	8	....	....	11⅛	15¼	3½	15	**24.10**

Finish—Metal is bronze lacquer.

Guards—Steel wire guards finished in baked bronze enamel **$3.20** each.

Glass—Red glass with white lettered effect is standard.

TRIANGULAR EXIT SIGNS



Not Wired



No. 9935 Ceiling Mounting shown at right.

Schedule "S" Discounts

Cat. No.	Size Letters In.	Hgt. In.	Depth Front to Back In.	Lgth. Each Face In.	Lgth. Back In.	Wt. Lbs.	Price Each
2865	5	7	10	11¼	11¼	18	**$20.00**
2866	6	8	10½	11¾	11¾	20	**21.70**
2867	8	10	12⅜	14	13¾	25	**25.30**

Signs have two porcelain sockets for Type A Lamps. Removable front permits sliding in of glass and relamping. Top and bottom solid. For flashed opal glass at bottom, add **$3.00.** For No. 9935 ceiling mounting in lengths to 2 feet; add for lacquer finish, **$4.50** each. For additional lengths; add **$0.50** per ft.

Finishes and Glass—Same as Exit Signs shown above.

ART METAL EXIT LIGHTS



Wall Bracket
Nos. 209 and 2095

Made of aluminum. Finish: Polished Chromtint. Standard Glass: White with red letters. Ruby or green glass with white letters also available. Fitter size, 3¼ inches; Canopy diameter, 6¼ inches. Glass lettered on two sides.

Wall Bracket Type

Cat. No.	Glass Only No.	Letter Size	Height or Ext.	Lamps	Price
209	ES-948W	4″	8½″ Ext.	40W	**$8.50**
2095	ES-849W	5″	9¾″ Ext.	40W	**10.80**

Ceiling Type

210	ES-948C	4″	8½″ Ht. O.A.	40W	**8.50**
2105	ES-849C	5″	9¾″ Ht. O.A.	40W	**10.80**

Above available with Directional Arrow — right or left.

Glassware available lettered — Men — Women — Stairs — Fire Escape.

KOPP EXIT GLOBES

EXIT GLOBES



Globes in Ruby and Green furnished with white lettering; Nicco Opal with red lettering. Specify when ordering.

Lettered for use on wall mounting or ceiling fitter. Specify type fixture for which globes are desired; also color lettering.

Cat. No.	Color	Size Fitter	Letters Inches	Std. Pkg.	Price Each
	Dimensions—5½x5½x7 Inches Deep				
ES-948	R-1 Ruby	4	4	12	**$4.20**
ES-948	G-2 Green	4	4	12	**4.20**
ES-948	N-6 Nicco	4	4	12	**3.78**
	Dimensions—7¼x6½x8⅜ Inches Deep				
ES-849	R-1 Ruby	3¼	5	12	**6.00**
ES-849	G-2 Green	3¼	5	12	**6.00**
ES-849	N-6 Nicco	3¼	5	12	**5.40**

TRIANGULAR EXIT GLOBES

Cat. No.	Color	Size Fitter	Letters Inches	Std. Pkg.	Price Each
	Dimensions—7x7x7¼ Inches Deep				
ES-947	R-1 Ruby	3¼	4	12	**$6.36**
ES-947	G-2 Green	3¼	4	12	**6.36**
ES-947	N-6 Nicco	3¼	4	12	**5.73**

KOPP EXIT GLOBES



EXIT BALL GLOBES

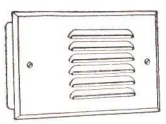
When ordering 6 and 8-inch Ball Globes — state size fitter wanted, size lettering desired, Black or White, and if to be lettered one or two sides. Also specify whether desired inverted as shown, or for use in upright position.

Cat. No.	Dia. In.	Size Fitter	Letters Inches	Std. Pkg.	Lettered One Side	Lettered Two Sides
ES-963	6	3¼	3	12	**$4.17**	**$4.62**
ES-983	8	3¼	4 & 5	8	**6.00**	**6.78**

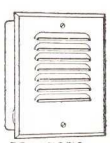
DAY-BRITE AISLE AND SIGNAL LIGHTS



Nos. 5050, 5080



No. 5060



No. 5070



No. 5055

Aisle and signal lights for hospitals, schools, public buildings and residences. Manufactured in several sizes with various louver arrangements. Substantial construction for long service.

Lamp in the 5050, 5070 and 5080 are upright and in the 5060 are horizontal. The use of inside frosted lamps is recommended.

Aisle Lights—No. 5050 and 5080 furnished complete with outlet box, porcelain enameled reflector, sign receptacle, louver cover and special alignment strips for squaring up of cover plate. Fixtures No. 5060 and 5070 as above except for porcelain reflector not included, interior sprayed aluminum.

Signal Lights—Same equipment as aisle lights, No. 5050, except that stippled glass roundels are used on cover, in place of louvers. Roundels are 3¾ inches diameter and are available in clear, red, amber, green and blue.

Schedule "S" Discounts

Lacquer Finish

Cat. No	Box Wdth.	Box Hght.	Box Dpth.	Lamp	Weight Each, Lbs.	Price
5050	4 11/16	4 11/16	2⅛	S-11, 10W	3	**$6.30**
5060	7	4 11/16	3	Type A to 75W	3	**7.00**
5070	4 11/16	7	3	Type A to 75W	3	**7.00**
5080	4 11/16	5⅞	2¾	Type A to 40W	3	**7.30**
5055	4 11/16	4 11/16	2⅛	S-11, 10W	3	**6.90**

Box—Galvanized, code thickness.

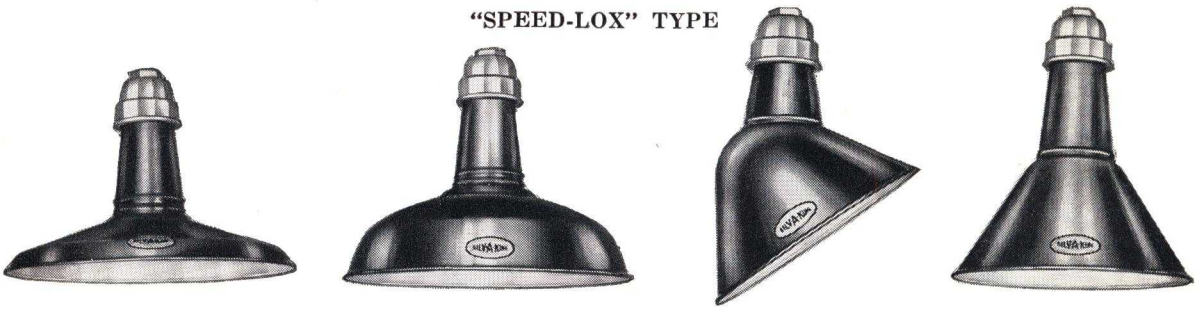
Cover—16-gauge steel.

Knockouts—At sides and end at socket location.

Finish—Baked Super-White or lustre aluminum enamel. Specify when ordering.

"SILV-A-KING" PORCELAIN ENAMELED STEEL REFLECTORS

"SPEED-LOX" TYPE

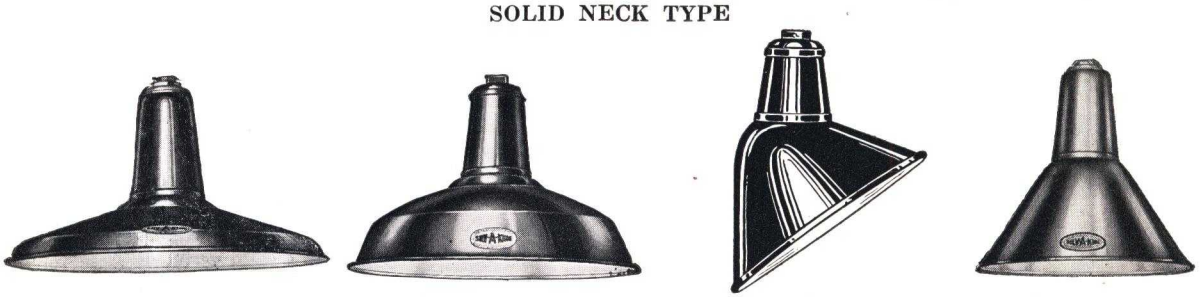


Cat. No.	Dia. Inches	Lamp Size Watts	Std. Pkg. Wt. Lbs.	Price Each
Shallow Bowl Reflectors				
24412	12	75–100	42	**$5.45**
24414	14	150	46	**5.95**
24416	16	200	61	**6.45**
24418	18	300–500	40	**8.00**
R.L.M. Standard Dome Reflectors				
24512	12	75–100	42	**5.45**
24514	14	150	51	**5.95**
24516	16	200	61	**6.45**
24518	18	300–500	44	**8.00**
24520	20	750–1500	55	**10.40**

Cat. No.	Dia. Inches	Lamp Size Watts	Std. Pkg. Wt. Lbs.	Price Each
R.L.M. Symmetrical Angle Reflectors				
24617	8	100	38	**$5.00**
24618	10	150	45	**5.65**
24619	12	200	50	**6.25**
24621	14	300–500	37	**7.55**
24651	16	750–1500	46	**10.90**
R.L.M. Deep Bowl Reflectors				
24900	8	75–100	36	**5.20**
24910	10	150–200	43	**5.75**
24920	12	300–500	38	**7.85**
24950	16	750–1500	46	**9.40**

All of the above reflectors can also be supplied with an outlet hood cover (No. 25000 series).

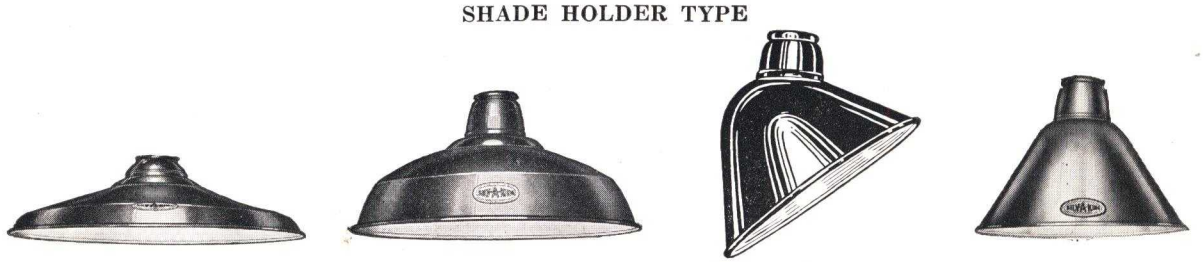
SOLID NECK TYPE



Shallow Bowl Reflectors				
412	12	75–100	27	**$4.20**
414	14	150	33	**4.70**
416	16	200	43	**5.20**
418	18	300–500	32	**6.75**
R.L.M. Standard Dome Reflectors				
512	12	75–100	29	**4.20**
514	14	150	38	**4.70**
516	16	200	48	**5.20**
518	18	300–500	36	**6.75**
520	20	750–1500	46	**9.15**

R.L.M. Symmetrical Angle Reflectors				
617	8	100	25	**$3.75**
618	10	150	32	**4.40**
619	12	200	37	**5.00**
621	14	300–500	30	**6.30**
651	16	750–1500	39	**9.65**
R.L.M. Deep Bowl Reflectors				
900	8	75–100	27	**3.95**
910	10	150–200	31	**4.50**
920	12	300–500	24	**6.60**
950	16	750–1500	36	**8.15**

SHADE HOLDER TYPE



Shallow Bowl Reflectors				
210	10	25–60	10	**$1.10**
212	12	75–100	15	**1.25**
214	14	150	20	**1.65**
216	16	200	27	**2.00**
R.L.M. Standard Dome Reflectors				
312	12	75–100	17	**2.40**
314	14	150	25	**2.80**
316	16	200	35	**3.30**

R.L.M. Symmetrical Angle Reflectors				
705	8	100	11	**$1.85**
715	10½	150	18	**2.45**
R.L.M. Deep Bowl Reflectors				
1017	8	100	18	**2.05**
1018	10	200	25	**2.80**

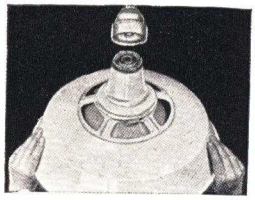
*All of the above reflectors equipped with a neck for standard 2¼-inch shadeholders.

These reflectors can be equipped with shadeholders for brass shell, porcelain or W.P. aluminum sockets at an advance of **$0.40 list over the above prices.

BENJAMIN "TURNLOX" LIGHTING EQUIPMENT

Hoods and Lamp Holders Listed by Underwriters' Laboratories, Inc.

EASILY PUT UP—EASILY TAKEN DOWN

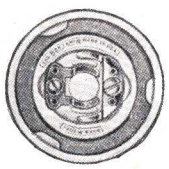


The Benjamin "Turnlox" principle of construction reduces cleaning and maintenance costs by allowing the reflector, lamp and globe to be put up or taken down as a complete unit for easy cleaning on the floor. No other equipment obtainable can compare for ease and speed of removal—a slight upward pressure on the rim of the reflector—less than a quarter turn to the left—and the complete reflector assembly is released. It is just as easy to put up—simply turn to the right.

Each Benjamin "Turnlox" unit consists of two distinct assemblies: a hood with an easy wiring terminal base and the reflector assembly which includes the lamp holder, reflector, and in the case of the Glassteel, the diffusing globe. The fixture is joined both electrically and mechanically by the engagement of the bayonet coupling in the terminal base.

Complete interchangeability is provided by a universal terminal base which makes it possible to use any "Turnlox" reflector and lamp holder combination with any "Turnlox" hood.

The wiring space in the terminal base is conveniently shallow and accessible. Large flat-headed binding screws with heavy shanks make possible quick, easy attachment of the wires.



Single center lead-in hole and large accessible terminal screws make wiring easy

"TURNLOX" GLASSTEEL DIFFUSERS





Consisting of: Porcelain enameled steel reflector, white inside and outside; porcelain lampholder and opal glass globe. Cast hoods: pendent type, tapped for ½-inch condit, ¾-inch if specified; ceiling type, fits 4-inch standard outlet boxes.

Pendent Type Hood

Size of Lamp Watts	Diam. in Inch. Diam.	Diam. in Inch. Height	With Opal Globe Cat. No.	With Opal Globe List Price
150–200	18	13⅛	**7201**	**$12.70**
*300	20	15⅜	**7204**	**17.15**
300–500	20	15⅜	**7202**	**17.15**
750–1000	24½	18⅜	**7203**	**24.75**

Ceiling Type Hood

150–200	18	12¾	**9201**	**12.70**
*300	20	15	**9204**	**17.15**
300–500	20	15	**9202**	**17.15**
750–1000	24½	18	**9203**	**24.75**

*300-watt medium base units.

Standard package is 4 on 18 and 20-inch diameter units and 2 on 24½-inch units.

Shock absorbing lamp holders, for above, medium or mogul, **$0.20** advance in list; suffix catalog number with "SHB."

Schedule 2 Discounts Apply.

BENJAMIN "TURNLOX" LIGHTING EQUIPMENT

"TURNLOX" RLM DOME REFLECTOR





Consisting of: Porcelain enameled steel reflector, white inside, green outside, porcelain lampholder and cast hood with a wiring terminal base. Pendent and angle hoods are tapped for ½-inch conduit; ¾-inch, if specified. Ceiling type hoods fit 3¼ or 4-inch standard outlet boxes.

Pendent Type Hood

Cat. No.	Size of Lamp Watts	Dimens., Inches Diam.	Dimens., Inches Height	Std. Pkg.	List Price
7641	100	12	9¼	10	**$5.45**
7642	150	14	10⅞	10	**5.95**
7643	200	16	12	10	**6.45**
7644	300–500	18	13¾	5	**8.00**
7645	750–1500	20	16⅝	5	**10.40**

Ceiling Type Hood

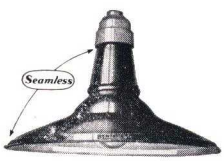
9641	100	12	8⅞	10	**5.45**
9642	150	14	10½	10	**5.95**
9643	200	16	11⅝	10	**6.45**
9644	300–500	18	13⅜	5	**8.00**
9645	750–1500	20	16¼	5	**10.40**

Angle Type Hood

3641	100	12	10⅜	10	**5.45**
3642	150	14	11½	10	**5.95**
3643	200	16	12⅝	10	**6.45**
3644	300–500	18	14⅜	5	**8.00**
3645	750–1500	20	17¼	5	**10.40**

Schedule 2 Discounts Apply.

"TURNLOX" SHALLOW DOME REFLECTOR





Specifications are the same as those given above for "Turnlox" Dome Reflector Fixtures.

Pendent Type Hood

Cat. No.	Size of Lamp Watts	Dimens., Inches Diam.	Dimens., Inches Height	Std. Pkg.	List Price
7437	50, 60, 75	12	8¼	10	**$5.45**
7421	100	12	9¼	10	**5.45**
7423	150	14	10¼	10	**5.95**
7425	200	16	11¼	10	**6.45**
7509	300–500	18	13	5	**8.00**

Ceiling Type Hood

9437	50, 60, 75	12	7⅞	10	**5.45**
9421	100	12	8⅞	10	**5.45**
9423	150	14	9⅞	10	**5.95**
9425	200	16	10⅞	10	**6.45**
9509	300–500	18	12⅝	5	**8.00**

Angle Type Hood

3437	50, 60, 75	12	8⅞	10	**5.45**
3421	100	12	9⅞	10	**5.45**
3423	150	14	10⅞	10	**5.95**
3425	200	16	11⅞	10	**6.45**
3509	300–500	18	13⅝	5	**8.00**

Pull chain lamp holder for above, medium base only, **$0.80** advance in list; suffix catalog number with "PUL." Self-locking lamp holders for above, medium only, **$1.00** advance in list; suffix catalog number with "LOK." Shock-absorbing lamp holder for above, medium or mogul, **$0.20** advance in list; suffix catalog number with "SHB."

Schedule 2 Discounts Apply.

BENJAMIN "TURNLOX" LIGHTING EQUIPMENT

Listed by Underwriters' Laboratories

"TURNLOX" RLM BOWL REFLECTOR





Consisting of: Porcelain enameled steel reflector, white inside, green outside, porcelain lampholder and cast hood with a wiring terminal base. Pendent and angle hoods are tapped for ½-inch conduit; ¾-inch if specified. Ceiling type hoods fit 3¼- or 4-inch standard outlet boxes.

Cat. No.	Size of Lamp Watts	Dimen., In. Diam.	Dimen., In. Height	Std. Pkg.	List Price
		Pendent Type Hood			
7156	60, 75	7	8¾	10	**$4.95**
7161	100	8	10¼	10	**5.20**
7169	200	10	12½	10	**5.75**
7173	300, 500	12	14⅝	5	**7.85**
7177	750–1500	16	18¼	5	**9.40**
		Ceiling Type Hood			
9156	60, 75	7	8⅛	10	**4.95**
9161	100	8	9⅝	10	**5.20**
9169	200	10	11⅞	10	**5.75**
9173	300, 500	12	14	5	**7.85**
9177	750–1500	16	17⅝	5	**9.40**
		Angle Type Hood			
3156	60, 75	7	9¼	10	**4.95**
3161	100	8	10¾	10	**5.20**
3169	200	10	13	10	**5.75**
3173	300, 500	12	15⅛	5	**7.85**
3177	750–1500	16	18¾	5	**9.40**

Schedule 2 Discounts Apply.

"TURNLOX" RLM SYMMETRICAL ANGLE REFLECTOR





Specifications are the same as those given for "Turnlox" RLM Bowl Reflectors.

Cat. No.	Size of Lamp Watts	Dimen., In. Diam.	Dimen., In. Height	Std. Pkg.	List Price
		Pendent Type Hood			
7541	100	8	11⅞	10	**$5.00**
7542	150	10	13⅝	10	**5.65**
7543	300, 500	14	18⅞	5	**7.55**
7544	750–1500	16	21⅜	5	**10.90**
		Ceiling Type Hood			
9541	100	8	11¼	10	**5.00**
9542	150	10	13	10	**5.65**
9543	300, 500	14	18¼	5	**7.55**
9544	750–1500	16	20¾	5	**10.90**

Pull chain lampholder for above, medium base only, **$1.00** advance in list; suffix catalog number with "PUL." Self-locking lamp holders for above, medium base only, **$0.60** advance in list; suffix catalog number with "LOK." Shock-absorbing lamp holders for above, **$0.20** advance in list; suffix catalog number with "SHB."

Schedule 2 Discounts Apply.

BENJAMIN "TURNLOX" LIGHTING EQUIPMENT

Listed by Underwriters' Laboratories

"TURNLOX" ELLIPTICAL ANGLE REFLECTOR



Consisting of: porcelain enameled steel reflector, green outside, white inside; rigid lamp holder assembly; cast hoods. Pendent and Angle type hoods for medium base fixtures tapped ½-inch standard; ¾-inch if specified. Hoods for mogul base fixtures tapped ¾-inch standard. Ceiling hoods fit 3¾ or 4-inch standard outlet boxes, 1½ inches or more deep.

Cat. No.	Size of Lamp Watts	Dimens., Inches Diam.	Dimens., Inches Height	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
		Pendent Type Hood				
7522	100	12¾x9⅛	14½	10	52	**$5.70**
7525	150	12¾x9⅛	15⅜	10	53	**6.60**
7526	200	16¼x11½	17⅛	10	66½	**7.35**
7537	300, 500	20 x14¾	20⅞	5	44	**12.30**
7538	750, 1500	21⅞x14⅞	23	2	29	**13.55**
		Ceiling Type Hood				
9522	100	12¾x9⅛	14⅛	10	55	**5.70**
9525	150	12¾x9⅛	15	10	56	**6.60**
9526	200	16¼x11½	16¾	10	69½	**7.35**
9537	300, 500	20 x14¾	20½	5	49	**12.30**
9538	750, 1500	21⅞x14⅞	22⅝	2	30	**13.55**
		Angle Type Hood *With No. 3 Hood				
3522	100	12¾x9⅛	15⅛	10	....	**5.70**
3525	150	12¾x9⅛	16	10	....	**6.60**
3526	200	16¼x11½	17¾	10	....	**7.35**
3537	300, 500	20 x14¾	21½	5	....	**12.30**
3538	750, 1500	21⅞x14⅞	23⅝	2	....	**13.55**

*Furnished with No. 3R Hood at same price. Add letter "R" to catalog number when ordering.

Both No. 3 and 3R Hoods provide three reflector position 120° apart. Use No. 3 Hoods when reflectors must face directly toward conduit support; No. 3R when reflectors face directly away from the conduit.

Schedule 2 Discounts Apply.

"TURNLOX" FLAT CONE REFLECTOR





See specifications under fixtures above.

Cat. No.	Size of Lamp Watts	Dimens., Inches Diam.	Dimens., Inches Height	Std. Pkg.	List Price
		Pendent Type Hood			
7431	50, 60, 75	14	7½	10	**$5.45**
7411	100	14	8½	10	**5.45**
7402	150	16	9½	10	**5.95**
7403	200	18	10⅜	10	**6.45**
		Ceiling Type Hood			
9431	50, 60, 75	14	7⅛	10	**5.45**
9411	100	14	8⅛	10	**5.45**
9402	150	16	9⅛	10	**5.95**
9403	200	18	10	10	**6.45**
		Angle Type Hood			
3431	50,60, 75	14	8⅛	10	**5.45**
3411	100	14	9⅛	10	**5.45**
3402	150	16	10⅛	10	**5.95**
3403	200	18	11	10	**6.45**

Pull chain lamp holder for above, medium base only **$1.00** advance in list; suffix catalog number with "PUL." Self-locking lamp holders for above, medium base only, **$0.60** advance in list; suffix catalog number with "LOK." Shock-absorbing lamp holders, for Flat Cone Reflectors only, **$0.20** advance in list; suffix catalog number with "SHB."

Schedule 2 Discounts Apply.

BENJAMIN "TURNLOX" EQUIPMENT
LAMP HOLDER ASSEMBLIES
Listed by Underwriters' Laboratories

These lamp holder assemblies are for use in Benjamin "Turnlox" Reflector Equipment.

Assemblies consist of a porcelain lamp holder and a "Turnlox" Bayonet attaching plate, with gaskets and screws for attachment.

KEYLESS RIGID MEDIUM BASE LAMP HOLDER
660 Watts, 600 Volts



Standard for "Turnlox" Reflectors with holders of this type. One piece porcelain body.

Cat. No.	Description	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
2751	Com. Ass'bly	10	6½	$1.20

Schedule 2 Discounts Apply.

KEYLESS RIGID MOGUL BASE LAMP HOLDER
1500 Watts, 600 Volts

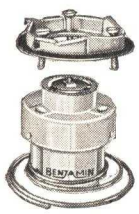


Standard for "Turnlox" Reflectors with holders of this type. Two-piece porcelain body.

Cat. No.	Description	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
2760	Com. Ass'bly	5	7	$1.75

Schedule 2 Discounts Apply.

SHOCK-ABSORBING MEDIUM BASE LAMP HOLDER
660 Watts, 600 Volts



Lengthen lamp life by guarding the lamp filament against vibration, shocks and jars. One-piece porcelain body.

Cat. No.	Description	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
2753	Com. Ass'bly	10	10	$1.40

Schedule 2 Discounts Apply.

SHOCK-ABSORBING MOGUL BASE LAMP HOLDER
1500 Watts, 600 Volts



Lengthen lamp life by guarding the lamp filament against vibration, shocks and jars. Two-piece porcelain body.

Cat. No.	Description	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
2762	Com. Ass'bly	5	7	$1.95

Schedule 2 Discounts Apply.

PULL CHAIN MEDIUM BASE LAMP HOLDER
660 Watts, 250 Volts



Provides a reliable method of individually controlling "Turnlox" Equipment. Has an exclusive Benjamin "inner-pull" feature. Includes 5½ foot cord extension.

Cat. No.	Description	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
2752	Com. Ass'bly	10	6½	$2.20

Schedule 2 Discounts Apply.

SELF-LOCKING MEDIUM BASE LAMP HOLDER

Prevent un-authorized lamp removal. Socket locks automatically as lamp is screwed in, but key No. 1399, which is not included with socket and must be ordered separately, is required for removal. One-piece porcelain body.



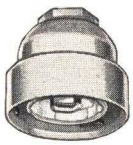
Cat. No.	Description	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
2754	Com. Ass'bly	10	9	$1.80
1399	Key Only	1	½	1.30

Schedule 2 Discounts Apply.

BENJAMIN "TURNLOX" HOODS
WITH WIRING TERMINAL BASE
1500 Watts, 600 Volts

Hoods Standard for Benjamin "Turnlox" Reflectors. Incorporate a porcelain universal wiring terminal base for either medium or mogul reflector assemblies. Cast body: finished in aluminum paint.

PENDENT HOOD



Tapped ½-inch standard; ¾-inch if desired, at same price.

Cat. No.	Size Tapped Inches	Std. Pkg.	Shpg. Wt. Lbs. Std. Pkg.	List Price
7	½	10	12	$1.40

Schedule 2 Discounts Apply.

CEILING HOOD



Hoods fit 3¼ or 4 inch standard octagonal or round outlet boxes of 1½ inches or more depth; also fit plaster covers with mounting screw holes spaced on 2¾ inch centers.

Cat. No.	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
9	10	15	$1.40

Schedule 2 Discounts Apply.

ANGLE HOOD

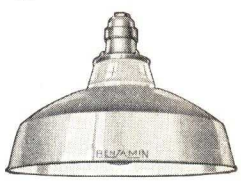


Both No. 3 and 3R Hoods provide three reflector positions—120° apart. Use No. 3 Hood where angle reflector must face directly towards conduit; No. 3R where it is to face directly away. Tapped ½-in. standard; ¾-in. if desired, at same price.

Cat. No.	Size Tapped Inches	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
3	½	10	15	$1.40
3R	½	10	15	1.40

Schedule 2 Discounts Apply.

BENJAMIN SILVERED LAMP DIFFUSERS



Benjamin Silvered Lamp Diffusers are for use with silvered bowl lamps in industrial interiors where it is desired to provide diffused illumination with minimized glare and good shadow conditions. The luminous top reflector construction, consisting of an opal glass neck section, allows 5% of the light to reach the upper room areas to relieve harsh contrasts between the lighting units and their background, thereby, insuring a well-lighted appearance over the entire room.

Reflector is of special deep dome shape, finished in white porcelain enamel inside and out. The opal glass neck section is held firmly in place around the skeleton neck of the unit. Units are supplied with socket-reflector X type fittings tapped ½ inch or with Turnlox detachable hoods; pendent and angle types tapped ½ inch standard; ceiling type fits 4 inch standard round or octagonal outlet boxes.

Type of Construction	Dia. In.	200-watt Lamp Size Cat. No.	200-watt List Price	300-500-watt Lamp Size Cat. No.	300-500-watt List Price
Socket-Reflector	20	5247	$12.15	5249	$12.70
"Turnlox" Pend.	20	7247	13.40	7249	13.95
"Turnlox" Ceil.	20	9247	13.40	9249	13.95
"Turnlox" Angle	20	3247	13.40	3249	13.95

Standard package, 4.

Schedule 2 Discounts Apply.

BENJAMIN SOCKET-REFLECTOR

Porcelain Enameled Steel

Reflectors—One piece porcelain enameled steel. They are weather-proof and may be used for indoor or outdoor service.

Sockets—Listed by Underwriters' Laboratories. Sockets are keyless, easy-to-wire type with arrangement which prevents loosening and falling of lamps under vibration.



Keyless **Shock-Absorbing** **Pull Chain**

Shock Absorbing Sockets will be supplied with reflectors at an advance of **$0.20** each, list. To order, suffix fixture number with "SHB".

Locking Type Socket, No. 4528, will be supplied with reflectors up to and including 200 watt sizes at an advance of **$0.60** each, list. To order, suffix fixture number with "LOK". Key, No. 1399, at **$1.00** each, list.

Pull Chain Socket, No. 2661, will be supplied with reflectors up to and including 200 watt sizes at an advance of **$1.00** each, list. To order, suffix fixture number with "PUL".

Fittings—Reflectors are supported by heavy cast fitting, independent of socket, making the whole fixture uniformly strong.

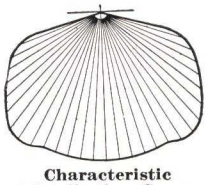
Tapping—Fitting tapped for ½ inch iron pipe regularly furnished. ¾ inch tapping or ½ inch insulating bushing, No. 1265 for drop cord use, furnished if specified at no advance in list.

Finish—Reflectors are Benjamin green porcelain enamel outside; white inside.

DOME SOCKET-REFLECTOR—RLM STANDARD



No. 5642



Characteristic Distribution Curve

For general illumination where it is desired to light both upright and flat surfaces and to eliminate sharp shadows.

The R L M has the correct diameter and depth to produce good diffusion and a sufficient screening of the light source to minimize glare. The lamp-shielding-cut-off of 17½ degrees below the horizontal meets with the regulations of the most stringent state lighting codes.

Each No. listed below includes a porcelain enameled steel reflector, a two-piece porcelain keyless socket, and heavy, cast X type suspension fitting.

Cat. No.	Size of Lamp Watts	Dimens., In. Diam.	Hght.	Shpg. Wt.Lbs. Std.Pkg.	Std. Pkg.	List Price
5641	100	12	7½	30	10	**$4.20**
5642	150	14	9⅜	36½	10	**4.70**
5643	200	16	10⅜	44½	10	**5.20**
5644	300, 500	18	12⅛	36	5	**6.75**
5645	750–1500	20	14⅞	45	5	**9.15**

Prices do not include wires or lamps.

Schedule 2 Discounts Apply.

BENJAMIN SOCKET-REFLECTOR

Porcelain Enameled Steel

RLM BOWL SOCKET-REFLECTOR



Characteristic Distribution Curve



No. 6169

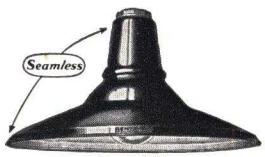
For general illumination where the lighting of horizontal surfaces is of first importance and where a high intensity is required in a relatively small area.

No. includes reflector, 2-piece socket, and X type suspension fitting.

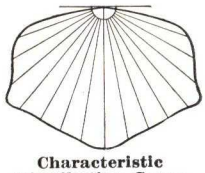
Cat. No.	Size of Lamp Watts	Dimen., In. Diam.	Hght.	Shpg. Wt.Lbs. Std.Pkg.	Std. Pkg.	List Price
6166	60, 75	7	6¾	24	10	**$3.70**
6161	100	8	8	26	10	**3.95**
6169	200	10	10⅝	29	10	**4.50**
6173	300, 500	12	12¾	21	5	**6.60**
6177	750–1500	16	16⅜	35	5	**8.15**

Schedule 2 Discounts Apply.

SHALLOW DOME SOCKET-REFLECTOR



No. 5423



Characteristic Distribution Curve

For general illumination where the lighting requirement is of an extensive character and where eye shielding is not considered of first importance.

Each No. includes reflector, 2-piece socket and X type suspension fitting.

Cat. No	Size of Lamp Watts	Dimen., In. Diam.	Hght.	Shpg. Wt.Lbs. Std Pkg.	Std. Pkg.	List Price
5437	50, 60, 75	12	6½	30	10	**$4.20**
5421	100	12	7½	30	10	**4.20**
5423	150	14	8⅝	33	10	**4.70**
5425	200	16	9⅝	45	10	**5.20**
5509	300, 500	18	11¼	35	5	**6.75**

Schedule 2 Discounts Apply.

FLAT CONE SOCKET-REFLECTOR



Characteristic Distribution Curve



No. 5402

For broad extensive light distribution—for such places as lumber yards, railroad terminal yards and street lighting.

Each No. includes reflector, 2-piece socket, and X type suspension fitting.

Cat. No.	Size of Lamp Watts	Dimen., In. Diam.	Hght.	Shpg. Wt.Lbs. Std.Pkg.	Std. Pkg.	List Price
5431	50, 60, 75	14	5¾	31	10	**$4.20**
5401	100	14	6¾	32	10	**4.20**
5402	150	16	7¾	40	10	**4.70**
5403	200	18	8⅝	50	10	**5.20**

Prices do not include wires or lamps.

Schedule 2 Discounts Apply.

BENJAMIN ELLIPTICAL ANGLE SOCKET-REFLECTOR

Porcelain Enameled Steel



No. 5525

This reflector is especially practical for illumination from the side and for lighting vertical as well as horizontal surfaces. Gives wide side distribution of light as well as to the front.

Construction:

Reflector: Elliptical shape. Crysteel porcelain enameled steel; green outside, white inside.

Socket: Two piece porcelain, Nat. Elec. Code Std.

Fitting: Heavy cast X type.

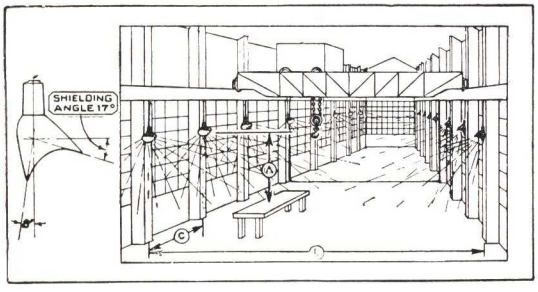
Cat. No.	Size of Lamp, Watts	Dimen. in In. Diameter	Dimen. in In. Height	Shpg. Wt. Lbs. Std. Pkg.	Std. Pkg.	List Price
5522	100	9⅛x12¾	12¼	37	10	**$4.45**
5525	150	9⅛x12¾	13⅝	37	10	**5.35**
5526	200	11½x16¼	15⅜	45	10	**6.10**
5537	300, 500	14¾x20	19⅛	38	5	**11.05**
5538	750, 1500	14⅞x21⅞	21¼	35	2	**12.30**

Prices do not include wires or lamps.

Schedule 2 Discounts Apply.

Nos. 5522, 5525 and 5526 have fitting regularly tapped for ½ inch pipe; ¾ inch if specified. Nos. 5537 and 5538 are regularly tapped for ¾ inch pipe. For coupling to increase to 1 inch or 1¼ inch add **$0.20** to list price.

The diagram below illustrates the installation of Benjamin Elliptical Angle Socket-Reflectors for interior illumination. Chart gives proper spacing for room and bays not exceeding 70 feet in width. Where it is necessary to light wider areas from the side, consult our Illuminating Department for special recommendations.



Interior Illumination

Height Above Work Plane "A"	Max. Dis. Across Room "B"	Max. Dist Between Refl. "C" (Length of Room)	Class of Work — Rough Size of Lamp and Lamp Watts	Ordinary Catalog No. of Refl.	Medium Catalog No. of Refl.	Fine Catalog No. of Refl.	Very Fine Catalog No. of Refl.
8′	16′	8′	Refl. No. 5522 Lamp Watts 75	100	100	150	200
			Lamp Watts 100	100	150	200	300
10′	20′	10′	Refl. No. 5522 Lamp Watts 100	150	200	300	300
12′	24′	12′	Refl. No. 5522 Lamp Watts 150	200	300	300	500
15′	30′	15′	Refl. No. 5525 Lamp Watts 200	300	300	500	750
18′	36′	18′	Refl. No. 5526 Lamp Watts 200	300	500	500	750
21′	42′	21′	Refl. No. 5526 Lamp Watts 300	500	750	750	1000
24′	48′	24′	Refl. No. 5537 Lamp Watts 300	500	750	1000	
27′	54′	27′	Refl. No. 5537 Lamp Watts 500	750	1000	1000	
30′	60′	30′	Refl. No. 5537 Lamp Watts 500	750	1000		
35′	70′	35′	Refl. No. 5537	5538	5538		

BENJAMIN SOCKET-REFLECTOR

Porcelain Enameled Steel

For details of construction, see first page of Socket-Reflectors.

PARABOLITE



No. 1235

Characteristic Distribution Curves



Plane Thru Major Axis



Plane Thru Minor Axis

The Benjamin Parabolite is a specially designed fixture for the illumination of aisles, platforms, and other long narrow areas indoors or outdoors.

Distribution curves are shown above. From these it is seen that the light is projected in a narrow stream with a low cut off on each side.

Each number includes porcelain enameled reflector, two-piece porcelain socket, and X type suspension fitting regularly tapped for ½-inch iron pipe.

Cat. No.	Size of Lamp, Watts	Dimen., In. Lgth.	Dimen., In. Hght.	Shpg. Wt. Lbs. Ea.	Std. Pkg.	List Price
1234	100	21⅛	10⅛	10	1	**$11.20**
1235	150	21⅛	10⅛	10	1	**11.20**
1236	200	21⅛	10⅛	10	1	**11.20**

Schedule 2 Discounts Apply.

RLM SYMMETRICAL ANGLE SOCKET-REFLECTOR



No. 5542

The Benjamin Symmetrical Angle Reflector is especially suitable for lighting of filing cases and shelves or where local illumination from a side position is wanted.

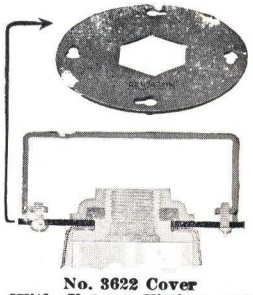
The axis of the reflector is set at an angle of 30 degrees from the vertical.

Cat. No.	Size of Lamp, Watts	Dimen., In. Diam.	Dimen., In. Hght.	Shpg. Wt. Lbs. Std. Pkg.	Std. Pkg.	List Price
5541	100	8	9⅞	24	10	**$3.75**
5542	150	10	11⅝	31	10	**4.40**
5543	300, 500	14	17⅜	33	5	**5.00**
5544	750, 1500	16	19½	38	5	**6.30**

Schedule 2 Discounts Apply.

BENJAMIN OUTLET BOX COVER

No. 3622 is a bonderized steel outlet box cover for use with X Type Fittings, for attaching Benjamin Socket-Reflectors direct to the conduit box. The cover is placed between reflector and top flange, and is provided with four bayonet slots which slip over screws on box. No other fittings are necessary. Finish is gray paint over bonderizing.



No. 3622 Cover With X-type Fitting and Benjamin Socket-Reflector Attached to Outlet Box

Cat. No.	Size of Outlet Box, In.	Std. Pkg.	Shpg. Wt. Lbs. Std. Pkg.	List Price
3622	4	20	8	**$0.25**

Prices do not include wires or lamps.

Schedule 2 Discounts Apply.

BENJAMIN "TYPE RR" LIGHTING EQUIPMENT

A complete unit consists of one of the hood styles shown at right in combination with one of the five types of reflectors listed below.

Hoods — Regularly supplied with Underwriters' listed, keyless, easy-to-wire sockets. Pendent hoods tapped ½-inch standard; ¾-inch, if specified, at same price. Ceiling hoods fit 4-inch standard, octagonal or round outlet boxes. Steel hoods are green porcelain enameled.

Reflector — Porcelain enameled steel; green outside, reflecting white inside.

Shock-Absorbing Sockets — Supplied in place of standard sockets at **$0.20** advance in fixture list. To order, suffix number with "SHB."

Pull Chain Sockets—With 5½-foot cord extension. Supplied in place of standard (medium base only) sockets at **$1.00** advance in fixture list. To order, suffix number with "PUL."

Self-Locking Sockets — Supplied in place of standard (medium base only) sockets at **$0.60** advance in fixture list. To order, suffix number with "LOK." For Shock-Absorbing Locking Sockets at **$0.80** advance in fixture list, suffix number with "ASL." Key for releasing lamp in both sockets, Cat. No. 1399, **$1.30** list.

Prices do not include wires or lamps.

Pendent Steel Hood



Tapped ½-Inch Standard

Complete With Medium Base Socket

Cat. No.	List Price
26030	$2.15

Complete With Mogul Base Socket

Cat. No.	List Price
26035	$2.70

Ceiling Steel Hood



Fits 4-Inch Std. Outlet Boxes

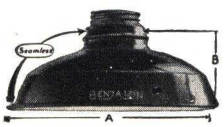
Complete With Medium Base Socket

Cat. No.	List Price
26025	$2.15

Complete With Mogul Base Socket

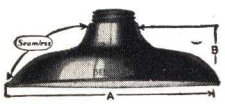
Cat. No.	List Price
26029	$2.70

Reflectors Only



RLM Dome Reflectors

Lamp Watts	Cat. No.	List Price	Dimen., In. A	B	Std. Pkg.
100	26012	$2.80	12	4	10
150	26014	3.30	14	5⅝	10
200	26016	3.80	16	6¾	10
300, 500	26018	4.70	18	8½	5
750–1500	26020	7.10	20	11¼	5



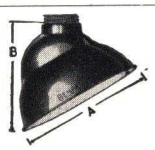
Shallow Dome Reflectors

50, 60, 75	26412	$2.80	12	2½	10
100, 500	26414	3.30	14	3½	10
200	26416	3.80	16	4½	10
300, 500	26418	4.70	18	7⅞	5



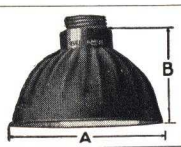
RLM Bowl Reflectors

100	26108	$2.55	8	4½	10
200	26110	3.10	10	7	10
300, 500	26112	4.60	12	9	5



RLM Symmetrical Angle Reflectors

200	26232	$3.60	12	10¾	10
300, 500	26234	4.25	14	13½	5
750–1500	26236	7.65	16	15½	5



Fluted Bowl Reflectors

300, 500	26114	$4.60	14	8⅜	5
750–1500	26117	9.00	18	11⅞	5

Complete with Hoods and Reflectors

RLM Dome Units, Complete

Cat. No.	List Price	Cat. No.	List Price
26552	$4.95	26582	$4.95
26555	5.45	26585	5.45
26558	5.95	26588	5.95
26561	7.40	26591	7.40
26562	9.80	26592	9.80

Shallow Dome Units, Complete

26862	$4.95	26872	$4.95
26853	5.45	26878	5.45
26850	5.95	26875	5.95
26868	7.40	26888	7.40

RLM Bowl Units, Complete

26658	$4.70	26678	$4.70
26664	5.25	26684	5.25
26668	7.30	26688	7.30

RLM Symm. Angle Units, Complete

26952	$5.75	26972	$5.75
26954	6.95	26974	6.95
26956	10.35	26975	10.35

Fluted Bowl Units, Complete

26474	$7.30	26484	$7.30
26477	11.70	26487	11.70

Standard Package is ten on medium and five on mogul hoods, reflectors and fixtures.
Standard Package of Hoods and Reflectors cannot be assorted to obtain maximum discounts.

Schedule 2 Discounts Apply.

BENJAMIN "TYPE RR" LIGHTING EQUIPMENT

Pendent Cast Hood



Tapped ½-Inch Standard

Complete With Medium Base Socket

Cat. No.	List Price
26050	$2.95

Complete With Mogul Base Socket

Cat. No.	List Price
26055	$3.50

Ceiling Cast Hood



Fits 4-Inch Std. Outlet Boxes

Complete With Medium Base Socket

Cat. No.	List Price
26045	$3.10

Complete With Mogul Base Socket

Cat. No.	List Price
26049	$3.65

A complete unit consists of one of the hood styles shown at left in combination with one of the reflectors listed below.

Hoods — Regularly supplied with Underwriters' listed, keyless, easy-to-wire sockets. Pendent hoods tapped ½-inch standard; ¾-inch, if specified, at same price. Ceiling hoods fit 4-inch standard, octagonal or round outlet boxes. Cast hoods are green lacquer over bonderizing.

Reflectors — Porcelain enameled steel; green outside, reflecting white inside.

Shock-Absorbing Socket — Supplied in place of standard sockets at **$0.20** advance in fixture list. To order, suffix number with "SHB."

Pull Chain Sockets—With 5½-foot cord extension. Supplied in place of standard (medium base only) sockets at **$0.80** advance in fixture list. To order, suffix number with "PUL."

Self-Locking Sockets — Supplied in place of standard (medium base only) sockets at **$0.60** advance in fixture list. To order, suffix number with "LOK." For Shock-Absorbing Locking Sockets at **$0.80** advance in fixture list, suffix number with "ASL." Key for releasing lamp in both sockets, Cat. No. 1399, **$1.30** list.

Prices do not include wires or lamps.

Complete With Hoods and Reflectors

RLM Dome Units, Complete

Cat. No.	List Price	Cat. No.	List Price
26512	$5.75	26532	$5.90
26515	6.25	26535	6.40
26518	6.75	26538	6.90
26521	8.20	26541	8.35
26522	10.60	26542	10.75

Shallow Dome Units, Complete

26812	$5.75	26822	$5.90
26803	6.25	26828	6.40
26800	6.75	26825	6.90
26818	8.20	26838	8.35

RLM Bowl Units, Complete

26608	$5.50	26628	$5.65
26614	6.05	26634	6.20
26618	8.10	26638	8.25

RLM Symmetrical Angle Units, Complete

26912	$6.55	26932	$6.70
26914	7.75	26934	7.90
26916	11.15	26936	11.30

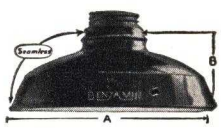
Fluted Bowl Units, Complete

26454	$8.10	26464	$8.25
26457	12.50	26467	12.65

Reflectors Only

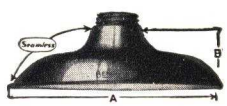
RLM Dome Reflectors

Lamp Watts	Cat. No.	List Price	Dimen., In. A	B	Std. Pkg.
100	26012	$2.80	12	4	10
150	26014	3.30	14	5⅝	10
200	26016	3.80	16	6¾	10
300, 500	26018	4.70	18	8½	5
750–1500	26020	7.10	20	11¼	5



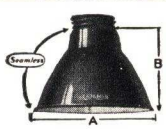
Shallow Dome Reflectors

50, 60, 75	26412	$2.80	12	2½	10
100, 150	26414	3.30	14	3½	10
200	26416	3.80	16	4½	10
300, 500	26418	4.70	18	7⅝	5



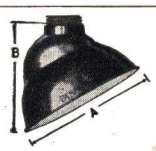
RLM Bowl Reflectors

100	26108	$2.55	8	4½	10
200	26110	3.10	10	7	10
300, 500	26112	4.60	12	9	5



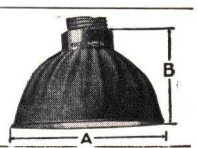
RLM Symm. Angle Reflectors

200	26232	$3.60	12	10¾	10
300, 500	26234	4.25	14	13½	5
750–1500	26236	7.65	16	15½	5



Fluted Bowl Reflectors

300, 500	26114	$4.60	14	8⅜	5
750–1500	26117	9.00	18	11⅞	5



Standard Package is ten on medium and five on mogul hoods, reflectors and fixtures.
Standard Package of hoods and reflectors cannot be assorted to obtain maximum discounts.

Schedule 2 Discounts Apply.

BENJAMIN "1800 SERIES" REMOVABLE REFLECTOR FIXTURES



Complete fixtures of combinations of the hood and socket units at the right, and the reflectors only, shown below. Hoods are designed to take all reflectors interchangeably and to accommodate either medium or mogul base sockets.

Pendent Cast Hood	Angle Cast Hood	Feed Through Cast Hood	Ceiling Cast Hood
			
No. E-18	No. L-18	No. T-18	No. C-18
Tapped ½-inch Standard	Tapped ½-inch Standard	Tapped ½-inch Standard	Fits 4-inch Standard Outlet Boxes

Takes Following Sockets

Cat. No.	Description
2101	Medium Base Keyless
2110	Mogul Base Keyless
2102	Medium Base Pull Chain (PUL)

REFLECTORS ONLY

Dome Reflector Only



Lamp Watts	Cat. No.	List Price	Diam In
100	1801	$2.80	12
150	1802	3.30	14
200	1803	3.80	16
300–500	1804	4.75	18

Shallow Dome Reflector Only



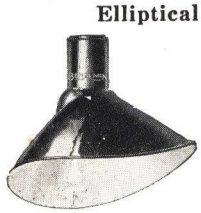
Lamp Watts	Cat. No.	List Price	Diam. In
50–75	1811	$2.80	10
100	1812	2.80	12
150	1813	3.30	14
200	1814	3.80	16

Symmetrical Angle Reflector Only



Lamp Watts	Cat. No.	List Price	Diam. In.
50–75	1821	$1.90	8
100	1822	1.90	8
150	1823	2.10	10
200	1824	3.60	12
300–500	1825	4.30	14

Elliptical Angle Reflector Only



Lamp Watts	Cat. No.	List Price	Width In.
100	1831	$3.05	12¾
150	1832	3.95	12¾
200	1833	4.70	16¼

Catalog Numbers and List Prices of Reflectors Complete with Hoods and Sockets

Dome Fixture Complete

Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
E-1801	$4.20	L-1801	$4.20	T-1801	$4.40	C-1801	$4.20
E-1802	4.70	L-1802	4.70	T-1802	4.90	C-1802	4.70
E-1803	5.20	L-1803	5.20	T-1803	5.40	C-1803	5.20
E-1804	6.75	L-1804	6.75	T-1804	6.95	C-1804	6.75

Shallow Dome Fixture Complete

Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
E-1811	$4.20	L-1811	$4.20	T-1811	$4.40	C-1811	$4.20
E-1812	4.20	L-1812	4.20	T-1812	4.40	C-1812	4.20
E-1813	4.70	L-1813	4.70	T-1813	4.90	C-1813	4.70
E-1814	5.20	L-1814	6.20	T-1814	5.40	C-1814	5.20

Symmetrical Angle Fixture Complete

Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
E-1821	$3.30	L-1821	$3.30	T-1821	$3.50	C-1821	$3.30
E-1822	3.30	L-1822	3.30	T-1822	3.50	C-1822	3.30
E-1823	3.50	L-1823	3.50	T-1823	3.70	C-1823	3.50
E-1824	5.00	L-1824	5.00	T-1824	5.20	C-1824	5.00
E-1825	6.30	L-1825	6.30	T-1825	6.50	C-1825	6.30

Elliptical Angle Fixture Complete

Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
E-1831	$4.45	L-1831	$4.45	T-1831	$4.65	C-1831	$4.45
E-1832	5.35	L-1832	5.35	T-1832	5.55	C-1832	5.35
E-1833	6.10	L-1833	6.10	T-1833	6.30	C-1833	6.10

Keyless, one-piece, easy-to-wire, Underwriters' listed porcelain sockets are supplied as standard.

Pull-Chain Socket, medium base only, can be furnished when specified at an advance of **$1.00** in list price. When ordering add the suffix "PUL" to the catalog number of the complete fixture.

Hoods are cast iron, finish electro-plated; reflectors are porcelain enameled steel; white inside green outside.

Standard package is 10 on Medium Base and 5 on Mogul Base reflectors and fixtures.

Schedule 2 Discounts Apply.

BENJAMIN "SNAP-IN" REFLECTOR HOLDERS

Attach to any Benjamin "Type N" Reflector with Neck for 2¼-inch Holders

Benjamin "Snap-in" Reflector Holders provide a quick and effective means of attaching any Benjamin Reflector with "Type N" neck for 2¼-inch standard shade holders, to practically any type of standard socket equipment. Benjamin Snap-in holders are so designed that when used with Benjamin Reflectors and the proper socket equipment, correct location of the lamp in reflector is assured.

ATTACHABLE HOLDERS


Type A


Type B


Type P


Type S

Type "A" Holder—For attachment to Benjamin "Ben-OX" sockets and fittings.

Type "B"—For attachment to Standard Brass Shell Sockets with Uno thread.

Type "P"—For attachment to Standard Porcelain or Composition Sockets.

Type "S"—For attachment to Benjamin "Benco" Metal Clad Sockets and Fittings and other manufacturers' sockets with inside threads.

Cat. No.	Style of Holder	Material	Shipping Wt. Lbs. Std. Pkg.	Std. Pkg.	List Price
4386	Type "A"	Copper	2	10	$0.55
4384	Type "B"	Natural Brass	2	10	.40
4385	Type "P"	Bright Metal	2	10	.55
4383	Type "S"	Bright Metal	2	10	.45

Schedule 2 Discounts Apply.

BENJAMIN SHADE HOLDER REFLECTORS

With "Type N" Neck for Attachment to 2¼ Inch Standard Shade Holders and Benjamin "Snap-In" Attachable Holders

RLM DOME SHADE HOLDER REFLECTORS




Characteristic Distribution Curve

For general illumination where it is desired to light both upright and flat surfaces; and to avoid direct glare by having the angle of light cut-off agree with all state lighting codes.

Cat. No.	Size of Lamp Watts	Holder Size, In.	Diam. In.	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
14075N	100	2¼	12	10	19½	$2.40
14100N	150	2¼	14	10	28	3.80
14200N	200	2¼	16	10	36	3.80
14300N	300, 500	3¼	18	5	29	4.60

Schedule 2 Discounts Apply.

BENJAMIN SHADE HOLDER REFLECTORS

With "Type N" Neck for Attachment to 2¼ Inch Standard Shade Holders and Benjamin "Snap-In" Attachable Holders

Benjamin Shade Holder Reflectors, in combination with "Snap-In" Holders, are for use where it is desired to attach reflectors to existing unit equipment already installed. They place the reflector in the proper position, with relation to the lamp, giving correct light distribution. Reflector is green porcelain enameled outside; white inside.

SHALLOW DOME SHADE HOLDER REFLECTORS




Characteristic Distribution Curve

For general illumination where the lighting requirement is of an extensive character and where eye shielding is not considered of first importance.

Cat. No.	Size of Lamp Watts	Diam. In.	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
11060N	60, 75	12	10	17	$1.85
11075N	100	12	10	17	2.15
11100N	150	14	10	24½	2.40
11200N	200	16	10	31	3.20

Schedule 2 Discounts Apply.

RLM BOWL SHADE HOLDER REFLECTORS




Characteristic Distribution Curve

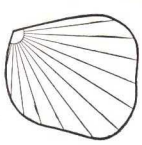
For general illumination where the lighting of flat surfaces is of first importance and where a high intensity is required in a relatively small area.

Cat. No.	Size of Lamp Watts	Diam. In.	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
12025N	25, 40	5	10	11	$1.20
12060N	60, 75	7	10	12	1.90
12075N	100	8	10	14	2.05
12200N	200	10	10	19½	2.80

Schedule 2 Discounts Apply.

RLM ANGLE SHADE HOLDER REFLECTORS




Characteristic Distribution Curve

For illuminating places where the light must come from the side.

Cat. No.	Size of Lamp Watts	Diam. In.	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
*15040N	25, 40	7	10	8	$1.45
15060N	60, 75	8	10	9	1.85
15075N	100	8	10	11	1.85
15100N	150	10	10	20	2.45

*This size reflector does not take RLM label.

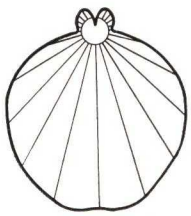
Schedule 2 Discounts Apply.

BENJAMIN GLASSTEEL DIFFUSER

PORCELAIN ENAMELED STEEL REFLECTOR WITH TYPE RR HOOD AND GLASS DIFFUSING GLOBE



No. 26300



Characteristic Distribution Curve

Finish—White porcelain enameled both inside and outside with blue-black bead.

Distribution—1. The most notable results of the Glassteel diffuser are softening of shadows and the reduction of direct and reflected glare. 2. Light reaches the ceiling and softens the contrast between the working plane and the space above the reflector; also light is directed at higher angles than by other similar equipment. 3. The total light output of the Glassteel Diffuser with a clear lamp is equal to that of an RLM reflector and a bowl enameled lamp of corresponding size. 4. The steel reflector protects the glass bowl, lessening the chances of breakage.

Reflector—Porcelain enameled steel in three sizes with Benjamin type RR threaded neck permitting easy removal of the reflector for cleaning. The reflector has six apertures at the top for the passage of light to the ceiling. Spring globe holder permits easy removal of globe for cleaning.

Socket—Two-piece porcelain, easy-to-wire type with Benjamin lamp grip, and special base which will permit the interchange of mogul or medium socket element. Hoods can be provided with shock absorbing socket at **$0.20** advance in fixture list. To order suffix complete fixture number with "SHB."

Supporting Fitting—Fitting tapped for ½ inch conduit standard, ¾ inch, if specified, at same price.

Glass Globe—Opal glass globes are standard on these units.

GLASSTEEL DIFFUSERS COMPLETE WITH GLOBE

PENDENT HOOD TYPE

With Opal Glass Globe

Cat. No.	Size of Lamp, Watts	Dimen., In. Diam.	Dimen., In. Height	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price
26300	150, 200	18	11¾	4	43	**$11.45**
26302	300, 500	20	13⅝	4	56½	**15.90**
26303	750, 1000	24½	16¾	2	51	**23.50**

CEILING HOOD TYPE

This unit is the same as shown in the above illustration, excepting that the hood is for mounting direct to a standard 4 inch outlet box.

With Opal Glass Globe

Cat. No.	Size of Lamp, Watts	Dimen., In. Diam.	Dimen., In. Height	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price
26304	150, 200	18	11	4	46	**$11.45**
26306	300, 500	20	12⅞	4	55½	**15.90**
26307	750, 1000	24½	16¼	2	50	**23.50**

Prices do not include wires or lamps.

BENJAMIN STOCK-BIN-LITE REFLECTORS



Cat. No. T-1876

Provide uniform illumination from top to bottom of rows of books, shelving, filing cabinets, etc. The lamp is carefully shielded to prevent glare when looking down aisles.

SPECIFICATIONS — special deep-trough shape porcelain enamel steel, white inside and outside. Reflector has apertures in each end to assist in building up illumination at points farthest away. A V-shaped deflector bar below reflector directs a portion of the light upward above the cut-off.

Pendent and Angle hood units tapped ½ inch standard, ¾ inch when specified. Ceiling hood unit fits 4-inch standard outlet boxes. Socket one-piece keyless, listed by Underwriters. Pull Chain Sockets supplied at **$1.00** each advance in list price. Add suffix "PUL" to catalog number of complete fixture.

Cat. No.	*Size of Lamp, Watts	Dimen., In. Width	Dimen., In. Height	Std. Pkg.	List Price
Pendent Hood Units with Reflectors and Socket					
E-1875	60, 75	7⅜	9⅜	10	**$4.80**
E-1876	100	7⅜	10⅝	10	**4.95**
E-1877	150	7⅜	11½	10	**5.10**
Angle Hood Units with Reflector and Socket					
L-1875	60, 75	7⅜	9¾	10	**4.80**
L-1876	100	7⅜	11	10	**4.95**
L-1877	150	7⅜	11⅞	10	**5.10**
Feed-Thru Units with Reflector and Socket					
T-1875	60, 75	7⅜	9¾	10	**5.00**
T-1876	100	7⅜	11	10	**5.15**
T-1877	150	7⅜	11⅞	10	**5.30**
Ceiling Hood Units with Reflector and Socket					
C-1875	60, 75	7⅜	8⅞	10	**4.80**
C-1876	100	7⅜	10⅛	10	**4.95**
C-1877	150	7⅜	11	10	**5.10**

*Inside frosted lamps are recommended.

Schedule 2 Discounts Apply.

BENJAMIN "UNIT PACKAGE" REFLECTOR AND BRACKET

For illuminating indoor and outdoor locations around the home, farm estate, etc. Reflectors are porcelain enameled steel. Detachable cast hoods with one-piece socket. Packed one to a carton, complete with a 16-inch section of ½-inch conduit and wall fitting. The conduit entrance in hood has a set screw to prevent accidental loosening of assembly. Reflectors are green outside. Hoods, conduit section and mounting fittings are finished to resist corrosion.

SHALLOW DOME REFLECTOR WITH BRACKET



Cat. No.	Reflector Diam., In.	Style Fitting	Std. Pkg.	List Price
1912	12	Open Wiring	10	**$4.60**
1914	14	Open Wiring	10	**5.00**
1916	16	Open Wiring	10	**5.40**

Schedule 2 Discounts Apply.

BENJAMIN EMBLEM SIGN REFLECTOR



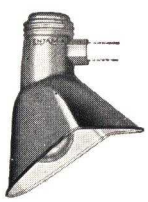
For intensive uniform lighting of circular emblem and similar small signs of the type popularly used around gasoline filling stations. Curved top cut-off reflector reduces light spillage to a minimum. "1800 Series" removable reflector construction, with side outlet hood, reduces installation time, reduces installation costs. Neat and inconspicuous.

Cast iron cadmium plated hood and porcelain enameled steel reflector; finished green outside, white inside. Tapped ½ inch standard.

Cat. No.	Lamp Watts	Tapping Inch	Refl. Diam. Inch	Std. Pkg.	Shipping Wt.Lbs. Std.Pkg.	List Price
S1821-L	50, 60, 75	½	8	10	26	$3.30
S1822-L	100	½	8	10	30	3.30
S1823-L	150	½	10	10	35	3.50

Schedule 2 Discounts Apply.

BENJAMIN "BULLETIN" SIGN REFLECTOR



For lighting small rectangular, and long narrow signs up to four feet high. The efficient elliptical-shape with a straight line cut-off at the top assures uniform illumination with a minimum of spillage. The side outlet hood and removable threaded cap, which allows wiring from the top, reduces installation time.

Cast iron cadmium plated hood and porcelain enameled steel reflector; finished green outside, white inside. Tapped ½ inch standard; ¾ inch, if specified.

Cat. No.	Lamp Watts	Tapping Inch	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
5731	50, 60, 75	½	10	24	$3.30
5732	100	½	10	28	3.40

Schedule 2 Discounts Apply.

BENJAMIN ANGLE HOOD "MASTER" SIGN REFLECTOR



For lighting display boards, poster panels, highway bulletins, roof and wall signs. Because of the unique design of this reflector, with its straight line cutoff, spillage over the board is practically eliminated and shadows are unknown. Reflector is easily removed by loosening two screws on the top of the hood.

Porcelain enameled steel reflector; finished green outside, white inside. Reflector can also be supplied white outside at same price. Hoods tapped ½ inch standard.

Cat. No.	Lamp Watts	Length Inches	Height Inches	Std. Pkg.	List Price
5575	100	9⅛	10⅞	9	$5.35
5576	150	9⅛	11¾	9	5.35

Schedule 2 Discounts Apply.

BENJAMIN ALUMINUM REFLECTOR FIXTURES



No. 4174



No. 4166

Reflecting surfaces are "Alzak" oxidized etched aluminum. Supplied with "X" fitting tapped ½-inch standard, or in Turnlox with a choice of hoods. Pendent and Angle hoods tapped ½-inch standard, ¾-inch, if specified; ceiling hoods fit 4-inch standard octagonal or round box, 1½ inches or more deep. Hoods finished to resist corrosion; reflector exterior, natural "Alzak."

Shock Absorbing Sockets—Supplied in place of regular rigid type socket or lamp holder at **$0.20** advance in fixture list. To order suffix fixture number with "SHB".

SPREAD TYPE

Used for general lighting. Spacing should not exceed 1¼ times the mounting height.

For 300 and 500 Watt Lamps

Style of Hood	Cat. No.	Dia. In.	List Price	Std. Pkg.	Height In.
"Socket-Reflector"	**4174**	14	**$12.70**	4	14
"Turnlox" Pendent	**7174**	14	**13.95**	4	15¾
"Turnlox" Ceiling	**9174**	14	**13.95**	4	15⅜
"Turnlox" Angle	**3174**	14	**13.95**	4	16⅜

For 750, 1000 and 1500 Watt Lamps

Style of Hood	Cat. No.	Dia. In.	List Price	Cat. No.	Dia. In.	List Price
Socket-Reflector	**4176S**	16	**$15.25**	**4178**	18	**$18.40**
"Turnlox" Pend.	**7176S**	16	**16.50**	**7178**	18	**19.65**
"Turnlox" Ceil.	**9176S**	16	**16.50**	**9178**	18	**19.65**
"Turnlox" Angle	**3176S**	16	**16.50**	**3178**	18	**19.65**

Standard package, 4.

CONCENTRATING TYPE

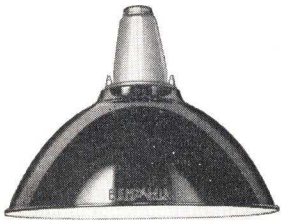
For lighting high narrow rooms requiring not more than three rows of units. The spacing distance between units should not exceed mounting height.

Style of Hood	For 300-500 Watt Lamps Cat. No.	Dia. In.	List Price	For 750-1500 Watt Lamps Cat. No.	Dia. In.	List Price
Socket-Reflector	**4166**	16	**$15.25**	**4168**	18	**$18.40**
"Turnlox" Pend.	**7166**	16	**16.50**	**7168**	18	**19.65**
"Turnlox" Ceil.	**9166**	16	**16.50**	**9168**	18	**19.65**
"Turnlox" Angle	**3166**	16	**16.50**	**3168**	18	**19.65**

Standard package, 4.

Schedule 2 Discounts Apply.

BENJAMIN "HIGH-BAY" PORCELAIN ENAMEL REFLECTOR UNIT



No. N-5480

These units are for use with 750, 1000 or 1500-watt incandescent lamps. They are used for general lighting of industrial areas, particularly where units are to be installed in high bays.

The dome-shaped reflector provides uniform illumination on both horizontal and vertical surfaces and its 72½ degree angle of cut-off (bottom of light source) minimizes glare.

Units are available with spun steel necks for use with any of three "Turnlox" hoods or Socket-Reflector "X" fitting. An auxiliary reflector is provided in neck to assure maximum light output. For description of hoods and fittings see listing above.

For 750-1500 Watt Incandescent Lamps

Type of Hood	Neck	Cat. No.	Dia. In.	Hght. In.	List Price
"Socket-Reflector"	Steel	**N-5480**	20	15½	**$11.00**
"Turnlox" Pendent	Steel	**N-7480**	20	17¼	**12.25**
"Turnlox" Ceiling	Steel	**N-9480**	20	16⅞	**12.25**
"Turnlox" Angle	Steel	**N-3480**	20	17⅞	**12.25**

Standard package, 4.

Schedule 2 Discounts Apply.

BENJAMIN VAPOR-SEAL LIGHTING UNITS

Listed by Underwriters' Laboratories for Class II Group G and Classes III and IV Locations



No. 5652

Weather, moisture and vapor tight units which satisfy Underwriters' requirements for locations mentioned above.

The reflector opening is sealed by a heavy heat-resisting, gasketed glass cover and the wire entrance by a rubber gland. The reflector threads into a cast metal hood, seating against an impregnated gasket. Hood has removable cast metal cap; finished in gray paint over Bonderizing. An auxiliary inner metal reflector is attached to hood. Reflectors are acid-resisting porcelain enameled steel; green outside, reflecting white inside. Sockets are one-piece porcelain construction, listed by Underwriters' Laboratories, Inc.

Cat. No.	Lamp Watts	Dimens., In. Diam.	Hght.	Tapping Inch	Std. Pkg.	List Price
5652	200	17¼	12	*½	2	**$34.95**
5653	300, 500	17¼	13½	¾	1	**44.55**

*Tapped ¾ inch, if specified.

Schedule 2 Discounts Apply.

BENJAMIN HEAVY DUTY VAPOR-TIGHT FIXTURES

Listed by Underwriters' Laboratories

PENDENT TYPE WITHOUT REFLECTOR



No. 6527

Two-piece, cast iron threaded hood; tapped ½-inch; ¾-inch, if specified. Porcelain, easy-to-wire socket and plain, clear or opal glass screw globe. Heat-resisting clear globes supplied at additional cost. Gaskets seal interior. For fixtures with Shock-absorbing socket add **$0.20** to fixture list price and suffix number with "SHB." Hoods finished in gray paint over bonderizing.

Size of Lamp Watts	Globe Dia.	Clear Globe Fixture Cat. No.	Clear Globe Fixture List Price	Opal Globe Fixture Cat. No.	Opal Globe Fixture List Price	Std. Pkg.
50–100	†6	**6526**	**$6.20**	**6526-OP**	**$9.00**	10
150–200	†6	**6527**	**6.30**	**6527-OP**	**9.10**	10
300–500	‡8¼	**6528**	**8.05**	**6528-DP**	**12.10**	5

†Opal globe diam. is 6⅜. ‡Opal globe diam. is 8⅜.

Schedule 2 Discounts Apply.

CEILING TYPE WITHOUT REFLECTOR



No. 6577

Two-piece, cast iron threaded hood with 4 No. 10 screw size slip holes and a gasket, for Benjamin Standard 4½-inch vapor-tight outlet boxes. Boxes can also be drilled to fit Standard 4-inch octagonal or round outlet boxes at same price. Asbestos-covered fixture wire must be used in making outlet box connections. Hoods finished in gray paint over bonderizing. For specifications other than hoods see description for Pendent Fixtures.

Size of Lamp Watts	Globe Dia.	Clear Globe Unit Cat. No.	Clear Globe Unit List Price	Opal Globe Unit Cat. No.	Opal Globe Unit List Price	Std. Pkg.
50–100	†6	**6576**	**$6.75**	**6576-OP**	**$9.55**	10
150–200	†6	**6577**	**6.85**	**6577-OP**	**9.65**	10
300–500	‡8¼	**6578**	**8.60**	**6578-OP**	**12.65**	5

†Opal globe diam. is 6⅜. ‡Opal globe diam. is 8⅜.

Schedule 2 Discounts Apply.

GLASS GLOBES FOR VAPOR-TIGHT UNITS

The following glass screw type globes are regularly supplied or can be used on Benjamin Heavy Duty Vapor-tight Fixtures.

Cat. No.	Lamp Size	Globe Dia.	Fitter Size	Description Globe	Std. Pkg.	List Price
1062	50–200	6	4¼	Plain, Clear	10	**$1.50**
1063	300–500	8¼	5⅝	Plain, Clear	5	**2.50**
1092	50–200	6	4¼	Opal	10	**4.30**
1093	300–500	8¼	5⅝	Opal	5	**6.55**
1094	50–200	6	4¼	Heat-Resisting	10	**5.90**
1095	300–500	8¼	5⅝	Heat-Resisting	5	**8.55**
6535N	Asbestos Gasket for Medium Base Heavy Duty Vapor-Tight Fixtures				10	**.20**
6537N	Asbestos Gasket for Mogul Base Heavy Duty Vapor-Tight Fixtures				10	**.20**

Schedule 2 Discounts Apply.

BENJAMIN "TYPE II-G" DUST-TIGHT AND MOISTURE-PROOF FIXTURES

Listed by Underwriters' Laboratories

Satisfy all Underwriters' requirements for installation in Class II Group G, hazardous locations (where combustible organic dust is suspended in the air and is likely to collect on fixtures in sufficient quantities to cause overheating or explosions) and in Class III and IV locations.

Fixture without Guard



No. 665

One-piece weather-proof casing, tapped for ½-inch conduit. Fitted with removable one-piece, easily wired porcelain socket which is held in place by a retaining ring that threads into the casing. Glass globe threads into casing and seats against an asbestos gasket.

Cat. No. 665 can be supplied with either Opal, Diffusing or Clear, Heat-Resisting Glass Globes in place of the globe regularly supplied, at the following advances in fixture list prices: Opal, **$2.80**; Heat-Resisting **$4.40**. To order, suffix Cat. No. 665 with "OP" for Opal or "HR" for Heat-Resisting.

Cat. No.	Size of Lamp Watts	Dimes., In. Diam.	Hght.	Std. Pkg.	Cat. No. Globe	List Price
663	25–75	4⅛	7⅝	10	1060	$2.95
665	100, 150	6	9¾	10	1062	3.80

Fixture with Guard



No. 657

One-piece weather-proof casing, tapped for ½-inch conduit. Fitted with removable one-piece easily wired porcelain socket which is held in place by a retaining ring that threads into the casing. Glass globe threads into casing and seats against an asbestos gasket. Hood finished to resist corrosion. No. 658 can be supplied with either Opal, Diffusing or Heat Resisting Glass Globes in place of the regular globe at the advances in list prices shown above. Guards are hot galvanized wire and screw onto the outside of the casing. Guard furnished with No. 657 is No. 1415; guard for No. 658 is No. 1428.

Cat. No.	Size of Lamp Watts	Dimes., In. Diam.	Hght.	Std. Pkg.	Cat. No. Globe	List Price
657	25–75	4¾	8½	10	1060	$5.50
658	100, 150	7½	10	10	1062	8.40

Schedule 2 Discounts Apply.

BENJAMIN GLOBE GUARDS



No. 1415



No. 1428

For Type II-G Moisture-Proof and Dust-Tight Fixtures. Guards are of wide mesh heavy steel wire and screw onto the fixture hood. Finish is hot galvanized, applied after welding.

Cat. No.	Style	For Fixtures	Std. Pkg.	List Price
1415	1-Piece	Nos. 663, 657	10	$2.55
1428	2-Piece	665 (HR-OP), 658 (HR-OP)	10	4.60

Schedule 2 Discounts Apply.

BENJAMIN TYPE II-G DUST-TIGHT PENDENT LIGHTING UNITS

Listed by Underwriters' Laboratories

Dust and vapor tight lighting units; also weather and moisture proof. Satisfy all Underwriters' requirements for installation in Class II, Groups E, F and G and Classes III and IV hazardous locations.

The acid resisting porcelain enameled steel reflector threads into the cast metal hood and is locked by a set screw. The glass globe screws into the reflector and is sealed by an impregnated asbestos gasket. Stuffing gland seals wire entrance. Hoods have a cast metal removable cap tapped ½-inch standard; ¾-inch if specified. Finished gray paint over Bonderizing. Sockets are listed by Underwriters' Laboratories, Inc. Reflectors are green outside, reflecting white inside.



Dome Reflector Unit



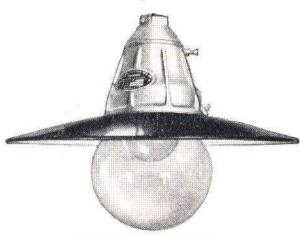
Bowl Reflector Unit

With Dome Reflector

Cat. No.	Lamp Watts	Dimens., In. Diam.	Hght.	Globe No.	Std. Pkg.	List Price
8500	100	12	11	1062	10	$14.60
8500-HR*	100	12	10⅝	1094	10	19.00
8505	150	18	13⅝	1063	10	20.95
8505-HR*	150	18	12⅞	1095	10	27.00
8503	200	18	13⅝	1063	10	20.95
8503-HR*	200	18	12⅞	1095	10	27.00

With Bowl Reflector

8506	100	9	11	1062	10	15.10
8506-HR*	100	9	10⅝	1094	10	19.50



Flat Cone Unit



Symm. Angle Unit

With Flat Cone Reflector

Cat. No.	Lamp Watts	Dimens., In. Diam.	Hght.	Globe No.	Std. Pkg.	List Price
8513	100	14	11	1062	10	$14.60
8513-HR*	100	14	10⅝	1094	10	19.00
8514	150	18	13⅝	1063	10	19.55
8514-HR*	150	18	12⅞	1095	10	25.60
8515	200	18	13⅝	1063	10	19.55
8515-HR*	200	18	12⅞	1095	10	25.60

With Symmetrical Angle Reflector

8517	100	10	11⅝	1062	10	15.25
8517-HR*	100	10	11⅝	1094	10	19.65
8519	150	14	16½	1063	10	20.30
8519-HR*	150	14	16½	1095	10	26.35
8518	200	14	16½	1063	10	20.30
8518-HR*	200	14	16½	1095	10	26.35

*Heat-Resisting Globes.

For listings of Ceiling Type units, see Benjamin catalog No. 26. Units without reflectors also available.

Schedule 2 Discounts Apply.

BENJAMIN 400-WATT MERCURY LAMP UNITS

GLASSTEEL DIFFUSERS



No. 7203

For use with the standard 400-watt mercury lamp in general lighting installations where soft evenly diffused light is required. Approximately 11 per cent of the light is directed through apertures in the top of the reflector onto the ceiling to relieve contrast.

These fixtures incorporate a safe, quick acting globe holder controlled by a single lever on the side of the reflector. An auxiliary reflector is provided in the reflector neck.

Units are supplied with Turnlox detachable hoods which allow the removal of reflector lamp and globe as a unit for cleaning by less than a quarter turn of the reflector heel in the hood, or in Socket Reflector construction with "X" type fittings. Turnlox ceiling hoods fit 3¼ or 4 inch standard round or octagonal boxes; other hoods and "X" fittings tapped ½ inch standard; ¾ inch if specified. Reflectors are white porcelain enamel inside and out. Turnlox hoods are finished in aluminum paint.

Type	Cat. No.	Dim. in In. Diam.	Dim. in In. Hght.	Std. Pkg.	List Price
"Socket Reflector"	**5203**	24½	16½	2	**$23.50**
"Turnlox" Pendent	**7203**	24½	18¼	2	**24.75**
"Turnlox" Ceiling	**9203**	24½	17⅞	2	**24.75**
"Turnlox" Angle	**3203**	24½	18⅞	2	**24.75**

20-INCH PORCELAIN DOME



No. 5480

These units are for use with standard 400-watt mercury lamp in general lighting installations.

The dome-shaped reflector provides uniform illumination on both horizontal and vertical surfaces and its 72½ degree angle of cut-off (bottom of light source) minimizes glare; therefore no louver is required. When specified, fixtures can be supplied at same price with an Opal glass cylinder for lower end of lamp at no extra cost.

Units are available with spun steel necks for use with any of three "Turnlox" hoods or Socket-Reflector "X" fitting. An auxiliary reflector is provided in neck to assure maximum light output. For description of hoods and fittings see listing above.

Type	Neck	Cat. No.	Dim. in In. Diam.	Dim. in In. Hght.	List Price
"Socket Reflector"	Steel	**5480**	20	15½	**$11.00**
"Turnlox" Pendent	Steel	**7480**	20	17¼	**12.25**
"Turnlox" Ceiling	Steel	**9480**	20	16⅞	**12.25**
"Turnlox" Angle	Steel	**3480**	20	17⅞	**12.25**

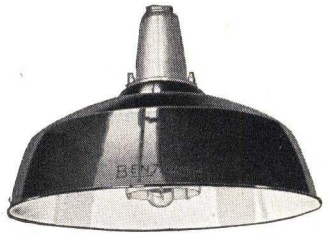
Standard package, 4.

400-Watt Mercury Lamps will not operate on ordinary lighting circuits unless special transformer or reactor equipment is provided.

Schedule 2 Discounts Apply.

BENJAMIN 400-WATT MERCURY LAMP UNITS

22-INCH SPREAD PORCELAIN DOME



No. 5485

These units are for use with the standard 400-watt mercury lamp in general lighting installations.

The porcelain enameled steel dome shaped reflector provides uniform illumination on both horizontal and vertical surfaces and its 78 degree cut-off (bottom of light source) is lowered to 61 degrees by the opal glass cylinder surrounding the lower portion of the lamp, which is supplied as standard.

Units are available with spun steel necks for use with any of three "Turnlox" hoods or Socket-Reflector "X" fitting.

Turnlox Ceiling Hoods fit 3¼ or 4-inch standard round or octagonal outlet boxes. Other Turnlox hoods and all "X" fittings tapped ½ inch standard; ¾ inch if specified. Reflectors are porcelain enameled steel, green outside, white inside.

Type	Neck	Cat. No.	Dim. in In. Diam.	Dim. in In. Hght.	List Price
"Socket Reflector"	Steel	**5485**	22	15¼	**$11.00**
"Turnlox" Pendent	Steel	**7485**	22	17	**12.25**
"Turnlox" Ceiling	Steel	**9485**	22	16⅝	**12.25**
"Turnlox" Angle	Steel	**3485**	22	17⅝	**12.25**

Standard Package, 4.

ELLIPTICAL ANGLE UNITS

For Side Lighting



No. 7528

Porcelain enameled reflectors for use with the 400-watt Mercury lamp in general lighting installations where light must come from the side.

These units provide good illumination on both horizontal and vertical surfaces with the most favorable lighting on vertical surfaces.

Supplied with Turnlox detachable hoods or in socket-reflector construction with separable "X" type fittings. Turnlox ceiling hoods fit 3¼ or 4 inch round or octagonal boxes; other hoods and fittings tapped ¾ inch standard; ½ inch if specified: Reflectors are green outside, reflecting white inside. Turnlox hoods are finished aluminum paint.

Cat. No.	Type	Dimensions, Inches Wdth.	Dpth.	Hgth.	Std. Pkg.	List Price
5528	"Socket Refl."	21⅞	14⅞	20⅛	2	**$12.30**
7528	"Turnlox" Pend.	21⅞	14⅞	21⅞	2	**13.55**
9528	"Turnlox" Ceil.	21⅞	14⅞	21½	2	**13.55**
3528	"Turnlox" Angle*	21⅞	14⅞	22½	2	**13.55**
3528R	"Turnlox" Angle*	21⅞	14⅞	22½	2	**13.55**

*Hood on Cat. No. 3528 provides for reflector facing directly toward conduit; No. 3528R, reflector faces away from conduit.

400-Watt Mercury Lamps will not operate on ordinary lighting circuits unless special transformer or reactor equipment is provided.

Schedule 2 Discounts Apply.

BENJAMIN COMBINATION 400-WATT MERCURY-INCANDESCENT DOME UNITS



These units are intended for general lighting installations where it is desired to provide light with more natural color rendition than is possible with mercury lamps alone. These units take one 400-watt Mercury lamp and three 150 or 200-watt Incandescent lamps. The light from these two types of light sources is mixed to achieve a blended light having a fair degree of color discrimination.

Features

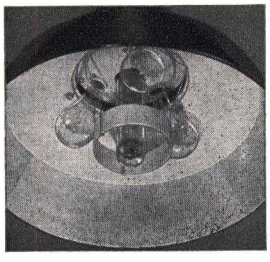
The dome-shaped porcelain enameled reflector provides a wide even spread of light with good illumination on both horizontal and vertical surfaces. The reflector skirt effectively shields the tilted incandescent lamps from view and an opal glass cylinder surrounding the lower portion of the Mercury lamp lowers the normal 78 degree reflector cut-off to 61 degrees to further minimize the possibility of direct glare.

Combination units are of special ventilated construction which assures safe operating temperatures. In case of a current interruption causing the Mercury lamp to drop out, it will cool readily and restart even though the Incandescent lamps are kept burning during the interval for standby illumination.

Specifications

Two-Piece cowling-type hood with one mogul base socket for Mercury lamp and three medium base sockets for Incandescent lamps. The opal glass cylinder surrounding the Mercury lamp is supported by a 3-point bracket attached to reflector holding screws.

FINISH — Reflectors are porcelain enameled steel, green outside, reflecting white inside; hoods are green porcelain enameled. Flange on hood is tapped ½ inch standard; ¾ inch if specified.



For 1—400-Watt Mercury Lamp and 3—150 or 200-Watt Incandescent Lamps.

Cat. No.	Dimens., Inches Diam.	Hght.	Std. Pkg.	List Price
5340	22	15⅞	1	$18.65

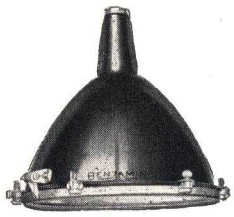
Separate circuits must be provided for Mercury and Incandescent lamps; Mercury lamp will not operate without transformer or reactor equipment. Prices do not include lamp, transformer or reactor.

Schedule 2 Discounts Applu.

BENJAMIN "STEELITE" ARMOR-CLAD LIGHTING UNITS

For 750-1500 Watt Incandescent and 400 Watt Mercury Lamps

Listed as Vapor-Tight by Underwriters' Laboratories



No. 5280

These Benjamin "Steelites" are highly efficient lighting units, specially designed to stand up under severe mechanical strain and unfavorable atmospheric conditions.

The Benjamin Armor-Clad "Steelite" consists essentially of a specially designed highly efficient Alzak aluminum reflector, enclosed in a protective steel housing to guard against damage caused by rough handling or from flying metal particles. The bottom of this housing is sealed against dust, moisture, and corrosive fumes by a hinged cover, equipped with tempered plate glass, which offers remarkable resistance to sudden impacts and is impervious to temperature changes. This sealed cover construction is likewise important in reducing maintenance time as the smooth outer surface of the glass is easily cleaned. The cover frame, which is hinged to the housing, is held in the closed position by six ingeniously designed compression-type, thumb latches fastened to the cover band and which lock over the outer rim of the housing.

All reflectors are formed from heavy gauge sheet aluminum and have a multi-conical section contour for most exacting light control. Reflecting surfaces are of durable Alzak aluminum, which offers unusual resistance to corrosive influences.

Units are provided with an "X" type separable fitting tapped ½ inch standard; ¾ inch, if specified. Sockets are keyless, rigid, mogul base type with finger type lamp grip and are listed by Underwriters' Laboratories. Shock absorbing sockets can be supplied at **$0.15** advance in unit list price.

Three Forms of Distribution

"Steelite" Units are supplied in several reflector arrangements to allow selection of a unit with the most suitable candle power distribution for the job under consideration.



Narrow Beam (¼ Scale) — Concentrating (½ Scale) — Spread (Full Scale)

Dimensions: Diameter reflector, 18 inches; diameter of cover, 20¾ inches; height, 18¾ inches.

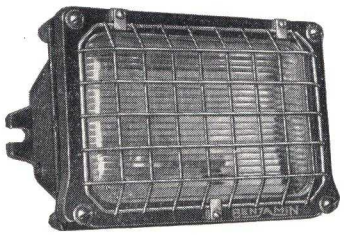
Type of Distribution	For 750-1500 Watt Lamps Cat. No.	List Price	For 400 Watt Mercury Lamps Cat. No.	List Price
Narrow Beam	5280	$43.80	5285	$43.80
Concentrating	5281	41.30	5286	41.30
Spread	5282	41.30	5287	41.30

Schedule 2 Discounts. Std. Pkg. One.

BENJAMIN PIT AND TUNNEL LIGHTING FIXTURE

Listed as Vapor-Tight by Underwriters' Laboratories

FOR CORRECT LIGHTING OF REPAIR PITS, WASH RACKS, TUNNELS, VIADUCTS, ETC.



No. 5715

Listed as vapor-tight by the Underwriters' Laboratories. Where other than water vapors are present, the installation of these units is subject to the rules of the inspection authorities having jurisdiction.

The proper lighting of pit interiors and the vehicles over the pits, lessens the danger of accidents to workers and increases their speed and effectiveness. The Benjamin Pit Lighting Fixture with Refracting Glass Cover offers a most satisfactory means of obtaining this correct illumination.

The efficient trough shaped porcelain enameled steel reflector assures maximum light output, while the Refracting glass cover concentrates the major portion of the light on the underside of the object over the pit.

The Pit Light is suitable for built-in or surface installation in locations such as repair shop service pits, railway and traction line service pits, wash racks, viaducts, tunnels and underpasses.

The Pit Lighting Fixture with the Refracting glass cover is recommended for use in lighting pits. However, in some types of locations, such as viaducts, tunnels and subways, where the lighting requirements are of a general nature, the Pit Light with a plain glass cover will be found more satisfactory.

In addition to its unusual lighting efficiency, the Benjamin Pit Lighting Fixture offers the following features: easy installation, easy maintenance, strength to stand up under more than normal abuse, a heat-resisting glass cover and a thoroughly weatherproof construction.

Units consist of a cast iron cover and a cast aluminum box which are held together by four bolts. The cover includes a cast iron frame, a heat-resisting glass cover, a double rubber gasket, which seals cover frame to box and glass to cover frame, and a steel wire guard.

The cast aluminum box includes a porcelain enameled steel trough-shaped reflector and a keyless socket. Box is regularly tapped for ½-inch conduit entrance at both ends. When specified, box can be tapped for ¾, 1 or 1¼-inch iron pipe at no advance in price.

With Refracting Glass Cover

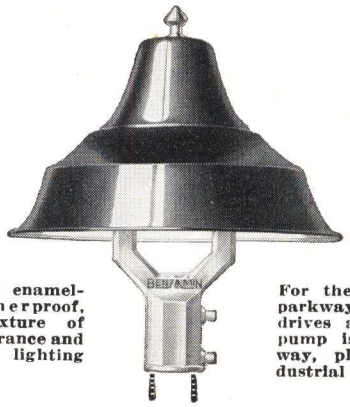
Cat. No.	Size of Lamp, Watts	Dimens., Inches Dpth.	Lgth.	Wdth.	Std. Pkg.	List Price
5715-AL	100–150	6½	12⅝	8⅜	1	**$24.75**
5720-AL	200	7½	13	8⅜	1	**27.95**

With Plain Glass Cover

5710-AL	100–150	6½	12⅝	8⅜	1	**24.75**
5717-AL	200	7½	13	8⅜	1	**27.95**

Schedule 2 Discounts Apply.

BENJAMIN COLUMN-LITE FIXTURE



A porcelain enameled, weatherproof, pole-top fixture of good appearance and of highest lighting efficiency.

For the lighting of parkways, walks, drives and gardens, pump islands, Railway, platforms, industrial locations.

The Benjamin Column-Lite introduces a number of outstanding developments in design which provide distinct superiorities in lighting efficiency, appearance and ease of maintenance.

The porcelain enameled steel reflector approximates the widely accepted RLM Dome in lighting characteristics. Even at the low mounting heights usually employed it provides uniform distribution of light over a wide area. Glare is minimized by the deep overhanging reflector skirt, which shields the filament from view.

The porcelain enamel reflecting surfaces will not crack or peel from heat or temperature changes and can be easily restored to original efficiency by cleaning with soap and water. The colors are permanent and will not fade.

The design of the fixture provides the advantages of normal base-up burning position for the lamp, making for easier lamp replacement and easier maintenance of the fixture.

Specifications and Listings

One-piece, seamless porcelain enameled steel reflector with removable top for easy access to the socket. Fixtures are regularly supplied green or red outside; special, diffusing white inside.

To protect lamp filament against shocks, a special spring mounting of the socket is provided. The one-piece, porcelain Underwriters' listed socket has side terminals for easy wiring.

Mounting bracket is of cast iron, finished in gray paint over bonderizing. Slip fitter fits over end of 2 inch iron pipe mast and is locked in position by set screws.

Complete with Ornamental Cap Nut

Cat. No.	Lamp Watts	Overall Dim., In. Diam.	Hght.	Shpg. Wt. Lbs. Each	List Price
N5680G	200-300†	18	19¼	21	**$20.30**
N5680R	200-300†	18	19¼	21	**20.30**
N5681G	300-500	20	21⅝	25	**20.30**
N5681R	300-500	20	21⅝	25	**20.30**

Complete less Ornamental Cap Nut*

N5630G	200-300†	18	19¼	20½	**$20.00**
N5630R	200-300†	18	19¼	20½	**20.00**
N5631G	300-500	20	21⅝	24½	**20.00**
N5631R	300-500	20	21⅝	24½	**20.00**

*Leaves ½" I.P. nipple exposed.

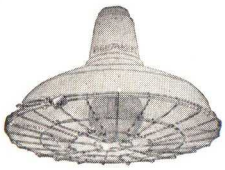
Suffix G denotes green reflector finish; suffix R red.

†Medium base.

Schedule 17 Discounts Apply.

BENJAMIN FIXTURE GUARDS

"SHALLOW-TYPE" REFLECTOR GUARDS



These guards fit Dome Reflectors and many other reflectors having circular openings and beaded edges where the lamp does not project below the reflector bead. *Attached by slipping grooved edge of the guard* around reflector bead and closing locking lever. Diameter given is that of reflector which guard fits. Padlock No. 2561, **$1.75** list. Guards hot galvanized; locking lever gray paint over bonderizing.

Cat. No.	Dia. In.	Dpth. In.	Std. Pkg.	List Price	Cat. No.	Dia. In.	Dpth. In.	Std. Pkg.	List Price
1387	12	1	10	**$3.40**	***1391**	17⅜	2¾	10	**$4.55**
1389	14	1¾	10	**3.80**	**1395**	18	1¾	10	**4.55**
1393	16	1½	10	**4.20**	**1397**	20	2	10	**5.10**

*Fits 200, 300 and 500-watt "Vapor Seal" fixtures.

"DEEP-TYPE" REFLECTOR GUARDS



Fit practically all Benjamin reflectors with circular openings and beaded edges. They are sufficiently deep to accommodate **fixtures** in which the lamp or enclosing globe projects below the reflector bead. Diameter given is that of reflector which guard fits. Padlock No. 2561, **$1.75** list. Guards hot galvanized; locking lever gray paint over bonderizing.

Cat. No.	Diam. In.	Dpth. In.	Std. Pkg.	List Price	Cat. No.	Dia. In.	Dpth. In.	Std. Pkg.	List Price
1380	8	1½	10	**$2.15**	**1388**	14	5	10	**$3.55**
1383	10	2¾	10	**2.55**	**1392**	16	4¾	10	**3.80**
1385	11⅜	2	10	**2.80**	**1394**	18	6¼	10	**4.60**
					1396	20	4	10	**5.10**

TWO-PIECE LOCKING CEILING GUARDS



Consists of a steel wire ring attached to ceiling by screws and a wire guard with welded joints that fits over **ceiling** ring. Guard is securely attached to ring through operation of lever which contracts guard. Finish is hot galvanized. For padlock No. 2561, add **$1.75** to list price. **Prices** are for guards only.

Cat. No.	Outside Dimensions, Inches— Dia. Top	Dia. Bottom Curve	Depth to Depth of Bottom Curve	Bottom Curve	Std. Pkg.	List Price
1371N	19⅛	16	14½	2½	10	**$8.25**
1375N	25¼	22	15	2	10	**10.15**

OUTLET BOX LAMP GUARD

Particularly adapted for low ceilings, side walls, foot lights, etc., where lamps are used in outlet boxes and need protection. Fitted with supporting screw holes at base to correspond to those in outlet box cover. Base slotted to fit either 3¼ or 4 inch boxes, and will take 40 to 100 watt lamps. Hot galvanized after parts are welded.



No. 1400

Cat. No.	Diam. In.	Depth In.	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
1400	4	5¾	10	8	**$4.50**

Schedule 2 Discounts Apply.

BENJAMIN GLASS COVERS FOR DUST PROTECTION

Listed by Underwriters' Laboratories



The efficiency of any lighting system, especially in those locations where excessive dust and dirt is present, is dependent upon thorough and frequent cleaning of the lighting equipment.

The Benjamin Dust Tight Glass Cover readily attaches to Benjamin Reflector Equipment and affords an economical method of keeping the Reflector clean. With the Dust Tight cover, it is necessary only to wipe off the smooth outer surface of the glass disc as compared with cleaning the lamp and reflecting surfaces of open reflector equipment.

The cover is of two-piece hinged construction. For relamping, easily operated locking cams on the band can be released, allowing the glass to swing down for easy access to the reflector interior.

Protects Lamps and Reflectors Against Dust and Dirt

The Dust Tight Glass Cover can be used in any industry, especially those locations subject to dust and dirt of manufacturing operations. A few such locations follow:

Brick Plants, Machine Shops, Cement and Lime Industries, Saw and Planing Mills, Steel Mills, Enameling Plants, Foundries, Glass Industries, Potteries, Sand Blasting Depts., Saw Mills, Stone Crusher Screens, Stone Cutting Industries.

Specifications

The cover consists of a circular asbestos gasket, glass disc and a two-piece hinged steel retaining band with locking cams.

For locations where fixtures are subject to sudden temperature changes, Dust Tight Covers with heat and impact-resisting glass covers are available to fit 14, 16, 18 and 20-inch diameter reflectors.

With Clear Glass Disc

Cat. No.	Cover Complete for	Shpg. Wt. Lbs. Std. Pkg.	Std. Pkg.	List Price
N-6408	8-inch Reflector	8	5	**$4.20**
N-6410	10-inch Reflector	10½	5	**4.45**
N-6412	12-inch Reflector	13½	5	**4.70**
N-6414	14-inch Reflector	18	5	**5.85**
N-6416	16-inch Reflector	22	5	**7.10**
N-6418	18-inch Reflector	28	5	**7.45**
N-6420	20-inch Reflector	31½	5	**9.80**
N-6422	22-inch Reflector	52	5	**12.65**

With Heat and Impact-Resisting Glass Disc

Cat. No.	Cover Complete for	Shpg. Wt. Lbs. Std. Pkg.	Std. Pkg.	List Price
6384	14-inch Reflector	26	5	**$11.00**
6386	16-inch Reflector	33	5	**14.10**
6388	18-inch Reflector	41	5	**19.45**
6390	20-inch Reflector	....	5	**24.75**

BENJAMIN SOCKETS FOR REFLECTOR EQUIPMENT

Listed by Underwriters' Laboratories



No. 2366



No. 2371

These "Type 66" medium base sockets incorporate a number of novel features which make for easy installation and long service. Wiring is extremely simple as the molded Bakelite cover at the bottom of the socket is easily unscrewed for access to the heavy binding terminal screws. In wiring sockets with "X" type fittings, the porcelain body need not be removed from the lower flange of the fitting. The single wire opening in the socket is large enough for No. 12 or 10 wire.

The Bakelite cover does not carry any of the essential socket parts, but merely encloses the metal contacting parts of the socket for extra safety and protection from dust.

Perfect electrical contact is assured at all times. All metal parts are permanently mounted on the porcelain terminal base, and the center contact and threaded shell contact are permanently attached to their terminal plates.

An unusually effective lamp grip is formed by a finger at the lower end of the threaded shell, backed by a spring wire reinforcement.

No. 2366 socket is supplied as standard on most medium base units with "X" type separable fittings including "Socket-Reflectors," except Elliptical and Symmetrical Angle Types; "RR" Pendent Steel Hoods; Threaded Neck Glassteel Diffuser Pendent Hoods; discontinued "Sturdox" Pendent Steel Hoods. No. 2368 socket is optional. No. 66 socket without fitting is standard on the following medium base units: "RR" Hoods, except Pendent Steel; Threaded Neck Glassteel Diffuser Ceiling Hoods; discontinued "Sturdox" Hoods, except Pendent Steel; Heavy Duty Vapor-Tight Units; and former "Shall-O-Hood" Hoods.

No. 2371 Shock-Absorbing Sockets lengthen lamp life by absorbing shocks and vibration. A special bronze spring between the socket and fitting floats the socket body and absorbs jars and shocks. Shock-Absorbing Sockets can be substituted for the regular sockets on all units listed above. In addition No. 2374, socket without fitting, is standard on medium base Type II-G Dust Tight Reflector Units and "Vapor-Seal" Units.

Keyless Rigid

Cat. No.	Size In.	Description	Std. Pkg.	List Price
2366	½	With "X" Type Fitting.....	10	$1.35
2368	¾	With "X" Type Fitting.....	10	1.35
66	....	Socket only, without fitting	10	.80

Keyless Shock-Absorbing

2371	½	With "X" Type Fitting.....	10	$1.55
2373	¾	With "X" Type Fitting.....	10	1.55
2374	....	Socket only, without fitting	10	1.00

Bakelite threaded cover only, Cat. No. **2166**, List Price **$0.25**, Std. Pkg. 10.

Shock-Absorbing Spring only, Cat. No. **4679**, List Price **$0.20**, Std. Pkg. 10.

Schedule 2 Discounts Apply.

BENJAMIN MEDIUM BASE KEYLESS RIGID SOCKETS

Listed by Underwriters' Laboratories

660 Watts—600 Volts

For Angle Type "Socket-Reflector" Units and formerly furnished with most "Socket-Reflector" Units.



No. 4651

Socket Assemblies Nos. 4651 and 4665 were formerly furnished as standard or optional equipment on most medium base "Socket-Reflector Equipment. Socket Assemblies Nos. 2366 and 2368 (see adjoining column) are now supplied. Nos. 4651 and 4665 are still furnished on Elliptical and Symmetrical Angle Units.

Cat. No.	Size In.	Description	Std. Pkg.	List Price
4651	½	Socket and "X" Fitting	10	$1.35
4665	¾	Socket and "X" Fitting	10	1.35
88	....	Socket without "X" Fitting	10	.80
4610	....	*Complete Upper Base Only	10	.40
4611	....	*Complete Lower Base Only	10	.40

*No. 4610 plus 4611 makes a complete 88 Socket.

Formerly furnished with "RR" and Glassteel Pendent Steel Hoods, also for discontinued Sturdox Hoods.

Parts listed below are for replacement on Sockets Nos. 4505, 4509 and 4507, formerly supplied as standard or optional equipment on hoods in heading above. These hoods now supplied with 2366, 2368 or 66 sockets — see adjoining column.



No. 4521



No. 4520

Cat. No.	Description	Std. Pkg.	List Price
4521	*Complete Upper Base Only	10	$0.40
4520	*Complete Lower Base Only	10	.40

*For complete replacement socket, less fitting, order Nos. 4521 and 4520, or use No. 66 socket.

Formerly furnished with "RR" Cast Hoods and "RR" and Glassteel Ceiling Steel Hoods.



No. 4518

Parts listed below are for replacement on Socket No. 4511 formerly supplied as standard equipment on medium base hoods in heading above. These hoods now supplied with No. 66 socket.

Cat. No.	Description	Std. Pkg.	List Price
4518	*Complete Upper Base Only	10	$0.40
4520	*Complete Lower Base Only	10	.40

*For complete replacement socket, less fitting, order Nos. 4518 and 4520, or use No. 66 socket.

Formerly standard on H.D. Vapor-Tight Units; also used on discontinued Gymanisum Fixtures and "Shall-O-Hood" Hoods.



No. 44

No. 44 Socket is standard on Column-Lite Units and formerly supplied as standard or optional equipment on units listed in heading above. No. 66 Socket (in adjoining column) is now supplied on all units except "Column-Lite."

Cat. No.	Description	Std. Pkg.	List Price
44	Porcelain Socket Only.....	10	$0.80

Schedule 2 Discounts Apply.

BENJAMIN MEDIUM BASE SHOCK-ABSORBING SOCKETS

FOR REFLECTORS

Listed by Underwriters' Laboratories

660 Watts — 600 Volts

Shock-Absorbing Sockets lengthen lamp life by absorbing mechanical jars otherwise transmitted to the lamp.

For Angle Type "Socket-Reflector" Units and formerly supplied with most "Socket-Reflectors," "RR" Cast Hoods and "RR" Glassteel Ceiling Hoods.



No. 4676

Socket Assemblies Nos. 4676 and 4677 were furnished as optional equipment on some "Socket-Reflectors" until recently, when Socket Assemblies Nos. 2371 and 2373, were substituted. They are still furnished for Elliptical Angle and Symmetrical Angle "Socket-Reflector" Reflector Units.

No. 4675, which is the same socket used above with the fitting omitted, was formerly furnished for "RR" Pendent and Ceiling Cast Hoods, and "RR" Glassteel Ceiling Steel Hoods. It is now supplanted on these hoods by No. 2374 Socket.

No. 4675 Socket consists of a No. 4679 Spring, a No. 4610 Upper Base and a No. 4611 Lower Base. For a complete socket replacement use either No. 4675 or No. 2374.

Cat. No.	Size In.	Description	Wt. Lbs. Std. Pkg.	List Price
4676	½	With "X" Type Fitting	9½	$1.55
4677	¾	With "X" Type Fitting	9½	1.55
4675	....	Socket Only, With Spring	7½	1.00
4610	....	Complete Upper Base, No Spring	....	.40
4611	....	Complete Lower Base Only	....	.40
4679	....	Shock-Absorbing Spring Only	1	.20

Parts for Sockets formerly supplied with "RR" and Glassteel Pendent Steel Hoods; also on Discontinued "Sturdox" Hoods.



No. 4680

The socket parts listed are for replacement on Sockets Nos. 4680, 4681 and 4682, which were formerly listed as optional equipment on the hoods indicated in the above heading. The Shock-Absorbing Sockets now supplied with these hoods are Nos. 2371, 2373 and 2374. For a complete replacement socket less fitting, specify a No. 4679 Spring, a No. 4521 Upper Base, a No. 4520 Lower Base, or use No. 2374 Socket.

Cat. No.	Size In.	Description	Wt. Lbs. Std. Pkg.	List Price
4521	....	Complete Upper Base, No Spring	..	$0.40
4520	....	Complete Lower Base Only	5	.40
4679	....	Shock-Absorbing Spring Only	1	.20

STRAIN RELIEF CORD GRIP



No. 1261

Serves as a strain relief and a cord bushing. Fits any socket tapped ½-inch and accommodates any cord from ⅜ to $\frac{15}{32}$-inch diameter, inclusive.

Consists of a bonderized malleable iron bushing with ½-inch iron pipe thread, to which 2 straps are attached by machine screws. Standard package, 50.

No. 1261 .....list price **$0.20**

Schedule 2 Discounts Apply

BENJAMIN MEDIUM BASE SHOCK-ABSORBING SOCKETS

FOR REFLECTORS

Listed by Underwriters' Laboratories

660 Watts — 600 Volts

Socket formerly supplied with Heavy Duty Vapor Tight, "Type II-G" Dust Tight and "Vapor-Seal" Units; also used on Discontinued "Shall-O-Hood" Hoods.



No. 2675

No. 2675 Socket was formerly supplied as standard on Medium Base "Type II-G" Dust Tight Reflector Units and "Vapor-Seal" Units. It was also supplied as optional on Heavy Duty Vapor-Tight Units, and on the now Discontinued "Shall-O-Hood" Units.

No. 2675 Socket is now supplanted on all the units mentioned by No. 2374 Socket. Either socket can be used for replacement purposes. One-piece porcelain construction.

Cat. No.	Size In.	Description	Wt. Lbs. Std. Pkg.	List Price
2675	....	Socket Only, With Spring	5½	$1.00
44	....	Socket Only, Without Spring	5½	.80
4679	....	Shock-Absorbing Spring Only	1	.20

BENJAMIN MEDIUM BASE PULL CHAIN SOCKET ASSEMBLIES

660 Watts, 250 Volts

For Socket-Reflector Units, "RR" Hoods and Discontinued "Sturdox" and "Shall-O-Hood" Hoods.



No. 2661

Nos. 2661 and 2667 are supplied with the following medium base equipment when a pull chain socket is specified: Socket-Reflector Fixtures; "RR" Pendent Steel Hoods. They were also supplied, when specified, on "Sturdox" Pendent Steel Hoods which are now discontinued.

No. 2664, which is the socket only of the above socket and fitting assemblies, is used in the following medium base reflector equipment when a pull chain socket is specified: "RR" Cast Pendent Hoods; "RR" Cast Ceiling Hood, "RR" Steel Ceiling Hoods. It was also supplied, when a pull socket was specified, in discontinued "Sturdox" Pendent and Ceiling Cast Hoods and Ceiling Steel Hoods, as well as on discontinued "Shall-O-Hood" Hoods. Socket has a one-piece porcelain body and is designed for long trouble-free service. A 6-foot cord extension is supplied with each socket.

The "X" type separable fittings supplied with these socket and fitting assemblies consist of a malleable iron lower flange, a cast aluminum cap, threaded cap and two gaskets — one for either side of the reflector top. The malleable iron lower base of the flange is specially finished to resist corrosive influences.

Cat. No.	Size In.	Description	Wt. Lbs. Std. Pkg.	List Price
2661	½	Socket and "X" Fitting	10½	$2.35
2667	¾	Socket and "X" Fitting	11	2.35
2664	....	Socket without "X" Fitting	6½	1.80

Schedule 2 Discounts Apply

BENJAMIN LOCKING SOCKETS

MEDIUM BASE SOCKETS—FOR REFLECTORS

660 Watts, 600 Volts

Listed by Underwriters' Laboratories

Self-Locking Sockets prevent unauthorized removal of lamps. The socket locks automatically as the lamp is screwed in but a key, Catalog No. 1399, is required for removal. Sockets have a two-piece porcelain body.

For "Socket-Reflector" Units, "RR" Hoods and for Discontinued "Shall-O-Hood" and "Sturdox" Hoods.



Self-Locking Socket Assemblies can be supplied, when specified, on the medium base, reflector equipment shown in heading above. Nos. 4528 and 4530 Socket Assemblies with "X" type separable fittings are designed for use with medium base "Socket-Reflector" Equipment. No. 86, Socket only for assemblies No. 4528 and 4530, is used in medium base "Type RR" Ceiling Steel Hoods, "Type RR" Pendent Cast Hoods, and "Type RR" Ceiling Cast Hoods. No. 86 Socket is also suitable for use in discontinued medium base "Sturdox" Pendent Cast Hoods, "Sturdox" Ceiling Cast Hoods, "Sturdox" Ceiling Steel Hoods, and "Shall-O-Hood" Hoods.

Cat. No.	Size In.	Description	Wt. Lbs. Std. Pkg.	List Price
4528	½	Socket and "X" Fitting.....	10	**$1.95**
4530	¾	Socket and "X" Fitting.....	10	**1.95**
86	....	Complete Socket only, no "X" Fitting	7	**1.40**
4610	....	Complete Upper Base	....	**.40**
586	....	Locking Body Element only	5	**1.00**
1399	....	Key only for all Sockets....	½	**1.30**

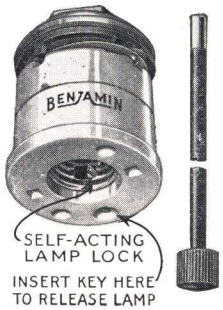
Catalog No. 86, complete socket, without fitting, consists of a No. 4610 upper base and a No. 586 Locking Body Element.

SHOCK-ABSORBING SOCKETS—FOR REFLECTORS

660 Watts, 600 Volts

Listed by Underwriters' Laboratories

For "Socket-Reflector" Units, "RR" Hoods and for Discontinued "Shall-O-Hood" and "Sturdox" Hoods.



Nos. 4548 and 4550 Socket Assemblies with "X" Type separable fittings are designed for use with medium base Socket - Reflector Equipment. They are also for use with "medium" base "Type RR" Pendent Steel Hoods and will fit discontinued, medium base "Sturdox" Pendent Steel Hoods. No. 4551 which is the socket only (with spring) used in socket assemblies Nos. 4548 and 4550, is for medium base "Type RR" Pendent Cast Hoods, "Type RR" Ceiling Cast Hoods, and "Type RR" Ceiling Steel Hoods. No. 4551 Socket is also suitable for use in discontinued medium base "Sturdox" Pendent Cast Hoods, "Sturdox" Ceiling Cast Hoods, and "Sturdox" Ceiling Steel Hoods as well as in all medium base "Shall-O-Hood" Hoods, which are also discontinued.

Cat. No.	Size In.	Description	Wt. Lbs. Std. Pkg.	List Price
4548	½	Socket and "X" Fitting.....	11	**$2.15**
4550	¾	Socket and "X" Fitting.....	11	**2.15**
4551	....	Socket only with Spring....	7	**1.60**
4679	....	Shock-Absorbing Spring only	1	**.20**

Schedule 2 Discounts Apply.

BENJAMIN MOGUL BASE SHOCK-ABSORBING SOCKETS

FOR REFLECTORS

Listed by Underwriters' Laboratories

1500 Watts, 600 Volts

The Benjamin Shock-Absorbing Socket lengthens lamp life by counteracting vibration by means of a bronze spring between the socket and fitting.

TWO PIECE MOGUL BASE

For "Socket-Reflectors," "RR" and Glassteel Hoods, H.D. Vapor Tight and Vapor-Seal Units; also for discontinued "Sturdox" and "Shall-O-Hood" Hoods.



No. 4670

Nos. 4670 and 4672 Socket Assemblies are for the mogul base equipment (using X-type separable fittings) in above heading, when a shock-absorbing socket is specified. Nos. 4578 complete socket only with spring is for use on the following "RR" mogul base hoods where a shock-absorbing socket is specified: Pendent, cast; Outlet Box, cast; Outlet Box, steel. No. 4578 is also supplied for mogul base heavy duty Vapor-Tight and is standard on "Vapor-Seal" Units and can also be used for replacement on discontinued mogul base "Shall-O-Hood" Hoods.

Sockets have a two-piece porcelain body. They are furnished with a specially designed "finger" type lamp grip.

Cat. No.	Size In.	Description	Wt. Lbs. Std. Pkg.	List Price
4670	½	Socket and "X" Fitting....	14	**$2.10**
4672	¾	Socket and "X" Fitting....	12½	**2.10**
4578	....	Socket only, with Spring	5	**1.55**
4524	....	Complete Lower Base only	4	**.95**
4626	....	Complete Upper Base only	....	**.40**
***4673**	....	Shock-Absorbing Spring only	1	**.20**

*Mogul circular type spring with mounting holes on 1¾ inch centers.

ONE-PIECE MOGUL BASE

Formerly supplied for Heavy Duty Vapor-Tight, "Vapor-Seal" and "Shall-O-Hood" Hoods.



No. 2671

No. 2671 Socket was formerly supplied on units in above heading, when a shock-absorbing socket was specified. All of the above shock-absorbing socket fixtures, except for "Shall-O-Hood" Units which are discontinued, are now furnished with No. 4578 Socket listed above in place of No. 2671. Either socket can be used for replacement in any of the fixtures indicated.

Sockets have a one-piece porcelain body. They are furnished with "finger" type lamp grip.

Cat. No.	Description	Wt. Lbs. Std. Pkg.	List Price
2671	Socket only, with Spring.....	5	**$1.55**
***4673**	Shock-Absorbing Spring only	1	**.20**
244	Socket only, less Spring.....	6½	**1.35**

*Mogul circular type spring with mounting holes on 1¾ inch centers.

Schedule 2 Discounts Apply.

BENJAMIN MOGUL BASE KEYLESS RIGID SOCKETS

FOR REFLECTORS

Listed by Underwriters' Laboratories

1500 Watts, 600 Volts

Standard for "Socket-Reflectors," "RR" and Glassteel Hoods, H.D. Vapor Tight Units, also for discontinued "Sturdox" and "Shall-O-Hood" Hoods.



No. 4657

No. 4657 is standard for following Mogul Base Equipment: all "Socket-Reflector" Fixtures, "RR" Pendent Steel Hoods, discontinued "Sturdox" Pendent Steel Hoods. No. 4657 is also standard for No. 264 Pendent Hood for Threaded Hood Glassteel diffusers. No. 4666, tapped ¾-inch is standard on Elliptical Angle Reflectors; optional for units using No. 4657. No. 698 Socket is standard for the following Type "RR" Mogul Base Hoods; Pendent, cast; Outlet Box, cast; Outlet Box, steel. It is also supplied with Mogul Base, Heavy Duty Vapor Tight Fixtures, and the ceiling hood for Threaded Hood Glassteel Diffusers. It can be used for replacement on discontinued "Shall-O-Hood" Hoods and on the following discontinued "Sturdox" Hoods: pendent, cast; ceiling, cast; ceiling steel.

Two-piece porcelain construction, with "finger" lamp grip.

Cat. No.	Size In.	Description	Wt. Lbs. Std. Pkg.	List Price
4657	½	Socket and "X" Fitting	8	**$1.90**
4666	¾	Socket and "X" Fitting	7½	**1.90**
698	....	Socket without "X" Fitting	6½	**1.35**
***4626**	....	Complete Upper Base only	.....	**.40**
***4524**	....	Complete Lower Base only	5½	**.95**

*Nos 4626 plus 4524 make a complete 698 Socket.

BENJAMIN MOGUL BASE KEYLESS RIGID SOCKETS

FOR REFLECTORS

Listed by Underwriters' Laboratories

1500 Watts, 600 Volts

Formerly furnished with "RR" Cast Hoods and "RR" and Glassteel Ceiling Steel Hoods.

The socket parts listed below are for replacement on Socket No. 4515, which was formerly standard equipment on the mogul base hoods indicated in the above heading. These hoods are now regularly supplied with No. 698 Socket, listed above. For a complete replacement socket order both upper and lower bases or use No. 698.



No. 4518



No. 4524

Cat. No.	Description	Wt. Lbs. Std. Pkg.	List Price
4518	Complete Upper Base only	..	**$0.40**
4524	Complete Lower Base only	4	**.95**

Schedule 2 Discounts Apply

BENJAMIN MOGUL BASE KEYLESS RIGID SOCKETS

FOR REFLECTORS

Listed by Underwriters' Laboratories

1500 Watts, 600 Volts

Standard for "Column-Lite" and formerly furnished with Heavy Duty Vapor Tight Units and "Shall-O-Hood" Hoods.



No. 244

No. 244 was formerly standard on Mogul Base Units in above heading. No. 244 was also standard on Mogul Base Gymnasium Lighting Fixtures. No. 244 is now supplanted by Catalog No. 698 Socket, on all units where it was formerly supplied except the "Column-Lite" and the Gymnasium Units on which it is still used. For replacement, either Nos. 698 or 244 Sockets can be used. One-piece porcelain construction with "finger" lamp grip.

Cat. No.	Description	Wt. Lbs. Std. Pkg.	List Price
244	Socket Without Fitting	6½	**$1.35**

BENJAMIN SOCKET ADAPTER STRAPS

These straps may be inserted between the socket and fitting in Benjamin Socket-Reflector Equipment to change the lamp position. They may also be used in a number of other Benjamin Fixtures. Attaching screw holes are spaced on 1¾-inch centers. Straps are of steel. Furnished with two screws.



Cat. No.	Description	Shpg. Wt. Lbs. Std. Pkg.	Std. Pkg.	*List Price
4561-B	⅞" Socket Extension	3	50	**$0.20**
4561-J	1½" Socket Extension	4	50	**.20**
4561-D	2½" Socket Extension	5½	50	**.20**

*Adapter straps, furnished on orders for complete reflector fixtures, are supplied without charge. When ordered separately, above list prices apply.

Possible Changes in Lamp Positions

Cat. No. 4561-B	Cat. No. 4561-D	Cat. No. 4561-J
200 Watt to 150 Watt 300-500 Watt to 200 Watt	750-1500 Watt to 300-500 Watt	150 Watt to 75,100 Watt

BENJAMIN "X" TYPE FITTINGS



Supplied as standard with all "X" type socket and fitting assemblies for Benjamin Socket - Reflectors former Sturdox and RR and Glassteel Pendent Steel Hoods. The fitting consists of a malleable iron lower flange, a cast aluminum cap and two gaskets — one for either side of the reflector top.

Cat. No.	Size Tapped Inches	Description	Shpg. Wt. Lbs. Std. Pkg.	Std. Pkg.	List Price
4653	½	X Type Fitting	4	10	**$0.55**
4668	¾	X Type Fitting	3	10	**.55**

Schedule 2 Discounts Apply

BENJAMIN MOGUL BASE SOCKETS

Listed by Underwriters'—1500 Watts, 600 Volts

ONE PIECE PORCELAIN SOCKETS

With Open Terminals



Socket No. 691 is arranged for attaching to a surface or bracket by means of screws passing through the base. The wires, in the socket, lead in at the sides. Supporting holes are spaced 1 5/32 inches on centers. Indented shell retards loosening of lamps.

Cat. No.	Description	Std. Pkg.	Carton	Shipping Wt. Lbs. Std. Pkg.	List Price Per 100
691	Indent. Thr. Shell	50	10	40	**$112.00**

With Concealed Terminals

Socket No. 692 attaches same as above. Wires lead in through the base. Screw holes are spaced 1 5/32 inches on centers.

Cat. No.	Description	Std. Pkg.	Carton	Shipping Wt. Lbs. Std. Pkg.	List Price Per 100
692	Indent. Thr. Shell	50	10	40	**$112.00**

METAL TOPS



Fitting is for use with Mogul Base Porcelain Sockets No. 691 and No. 692. Tapped ½ inch.

Cat. No.	Std. Pkg.	Carton	Shpg. Wt. Lbs.	List Price Per 100
2567	50	10	5	**$62.00**

Schedule 3 Discounts Apply.

BENJAMIN "1800 SERIES" SOCKETS

Listed by Underwriters' Laboratories

KEYLESS RIGID MEDIUM BASE SOCKET



No. 2101

No. 2101 is standard equipment for Medium Base Benjamin "1800 Series" equipment. One-piece, easy to wire; fits any Benjamin "1800 Series hood.

Cat. No.	Description	Std. Pkg.	Shpg. Wt. Lbs.	List Price
2101	Socket Only	10	5	**$0.80**

KEYLESS RIGID MOGUL BASE SOCKET

No. 2110 is standard equipment for Mogul Base Benjamin "1800 Series" equipment. One-piece, easy-to wire; fits any Benjamin "1800 Series" hood.



No. 2110

Cat. No.	Description	Std. Pkg.	Shpg. Wt. Lbs.	List Price
2110	Socket Only	5	4	**$1.10**

PULL CHAIN MEDIUM BASE SOCKET



No. 2102 Pull Chain Socket is for use in any Medium Base Benjamin "1800 Series" unit. Reliable mechanism; in addition to bead chain controlling the mechanism, socket is supplied with 6-ft. pull cord extension. Socket fits any Benjamin "1800 Series" hood.

Cat. No.	Description	Std. Pkg.	Shpg. Wt. Lbs.	List Price
2102	Socket Only	10	7	**$1.80**

BENJAMIN SOCKETS AND HOLDERS

Listed by Underwriters' Laboratories

"BENCO" WEATHER-PROOF SOCKETS



No. 4200

"Benco" Holders listed below or Benjamin Reflectors with Type "S" Holder listed on another page may be attached to screw thread at bottom of socket. Casings are of aluminum.

"BENCO" KEYLESS SOCKETS WITH ALUMINUM CASINGS

660 Watts—600 Volts—Medium Base

All "Benco" Sockets have a special type lamp grip which provides protection against accidental loosening of lamps.

Tapped for ½-Inch Iron Pipe Connection

Cat. No.	Description	Std. Pkg.	Carton	Shipping Wt. Lbs. Std.Pkg.	List Price Per 100
4200	Polished Aluminum Casing	50	10	17	**$96.00**

"BENCO" PULL CHAIN SOCKETS WITH ALUMINUM CASINGS

660 Watts — 250 Volts — Medium Base

Two-piece, easy-to-wire, molded composition pull chain interiors and strong metal casings. The inner pull is a big feature of these sockets.

Tapped for ½-Inch Iron Pipe Connection

Cat. No.	Description	Std. Pkg.	Carton	Shipping Wt. Lbs. Std.Pkg.	List Price Per 100
4225	Polished Aluminum	50	10	17	**$220.00**

Schedule 3 Discounts Apply.

"BENCO" THREADED HOLDERS—(TYPE "S")



Especially adapted for attaching shades or reflectors to medium base Benco Sockets and to Benco Outlet Box Fittings. These type "S" Holders fit any glass or metal reflectors of the size shown below.

Weather-Proof, Polished Aluminum

Cat. No.	Size In.	Std. Pkg.	Carton	Shipping Wt. Lbs. Std. Pkg.	List Price Per 100
4215	2¼	50	10	3	**$37.00**
4217	3¼	50	10	4	**56.00**

Schedule 3 Discounts Apply.

BENJAMIN OUTLET BOX FITTING



This fitting provides a cover for the outlet box, a medium base receptacle for a lamp and a threaded shell which makes it easy to atttach Benco Threaded Holders and Benjamin reflectors with Type "S" Holder. Green enamel finish.

Cat. No.	Description	Std. Pkg.	Carton	List Price Per 100
1406	Outlet Box Fitting for 3¼, or 4-inch Boxes....	50	10	**$148.00**

Schedule 3 Discounts Apply.

BENJAMIN MISCELLANEOUS REFLECTORS

SHALLOW DOME REFLECTORS



No. H410

Benjamin standard finished, porcelain enameled steel reflectors, green outside, white inside, with heel to fit standard shade holders. Reflectors with heel to fit 2¼-inch holders also fit "Snap-In" Reflector Holders.

Cat. No.	Size Reflector In.	Size Fitter In.	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
H410	10	2¼	10	11	$1.10
H412	12	2¼	10	15½	1.25
H414	14	2¼	10	23	1.65
H416	16	3¼	10	27½	2.05
HN416	16	2¼	10	27½	2.05

Schedule 2 Discounts Apply.

BENJAMIN SEWING MACHINE REFLECTOR

With Holder for Brass Shell Sockets



Benjamin Sewing Machine Reflector is used for localized lighting in connection with power sewing machines. Light is directed right where it is needed. Usually it is best to attach the reflector to an Angle Socket, which in turn is supported by a ⅜-inch conduit that is held in a horizontal position by whatever supporting fixture the particular conditions necessitate. Reflectors are porcelain enameled steel, green outside, white inside.

Cat. No.	Size of Lamp Watts	Dimen., In. Diam.	Dimen., In. Height	Std. Pkg.	Shipping Wt. Lbs. Std. Pkg.	List Price
31012B	15 to 25	3⅝	3⅞	10	4	$1.20

Schedule 2 Discounts Apply.

A-A METAL SHADES



DEEP CONE TIN SHADES

Green outside and white inside.

Cat. No.	Size In.	For Holders	Price Per Gross	Cat. No.	Size In.	For Holders	Price Per Doz.
408	8	2¼	$44.00	412	12	2¼	$8.50
410	10	2¼	45.00	414	14	2¼	16.90

FLAT TIN SHADES



Green outside and white inside.

Cat. No.	Size In.	For Holders	Price Per Gross	Cat. No.	Size In.	For Holders	Price Per Doz.
508	8	2¼	$46.00	512	12	2¼	$79.50
510	10	2¼	48.50	514	14	2¼	104.00



STEEL HALF SHADES

Half shades are white inside and are for 2¼-inch standard holders.

Cat. No.	Finish	Price Per Gross
910	Green Enamel Outside	$45.50
911	Brush Brass Outside	50.00
912	Brown Tone Outside	50.00

HUBBELL REFLECTORS

HALF REFLECTORS

For Brass Shell Sockets



With adjustable holder. Green and white. If desired for weatherproof sockets, add letter "P" after catalog number.

Cat. No.	Metal	Size Lamp Watts	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
5429	Steel	25–40–60	1	30	9

PARABOLA REFLECTORS



With adjustable holder. Sizes, 6½ inches. Standard finish, green and frosted. If desired for weatherproof sockets, add letter "P" to catalog number.

Cat. No.	Metal	Size Lamp Watts	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
5564	Steel	25–40–60	1	30	19

PARABOLA REFLECTORS — DIRECT THREADING


No. 6550


No. 6094

Green and frosted. Sizes 6½ inches.

With Holder at 30° Angle

Cat. No.	Metal	Size Lamp Watts	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
6550	Steel	25–40–60	1	30	18

With Holder at Top

6094	Steel	25–40–60	1	30	20

If above reflectors are desired for weatherproof sockets, place letter "P" after the catalog number.

FLAT REFLECTORS



No. 5432



No. 6752

Green and white.

For Threading Direct to Brass Shell Sockets

Cat. No.	Metal and Size	Size Lamp Watts	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
5432	10 Tin	25–40–60	10	50	20

For Weatherproof Sockets

6752	10 Tin	25–40–60	10	50	35

CONE REFLECTORS



No. 5441


No. 6761

Green and white.

For Brass Shell Sockets

Cat. No.	Metal and Size	Size Lamp Watts	Carton	Std. Pkg.	Wt.Lbs. Std.Pkg.
5441	10 Tin	25–40–60	10	50	29

For Weatherproof Sockets

6761	10 Tin	25–40–60	10	50	38

MACBETH MONAX BRAND GLASSWARE

THE SEVILLE



The Seville Monax Brand enclosing globe — a popular shape at popular prices.

Cat. No.	Dia. In.	Depth In.	Size Fitter	Watt	*Std Pkg.	Pkg. Wt.	List Price Each
811190	8½	5 9/16	4	60	12	22	**$1.29**
813160	10	6½	4	75	8	20	**2.58**
813170	12	7¾	6	100	4	18	**4.11**
813190	14	9	6	150	3	17	**4.95**
813200	16	10¼	6	200	2	17	**5.97**
813220	18	11⅜	6	300	1	13	**9.72**
813230	20	12¾	8	500	1	17	**14.40**

*Number of pieces per carton.

THE PILGRIM



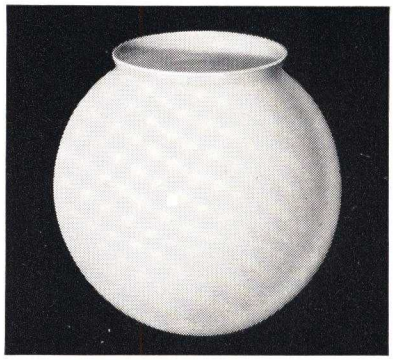
Simplicity of design coupled with the high efficiency of Monax Brand glass characterize the Pilgrim as an especially desirable globe for general diffuse illumination. An adequate range of sizes is offered in the following table.

Cat. No.	Dia. In.	Depth In.	Size Fitter	Watt	*Std. Pkg.	Pkg. Wt.	List Price Each
812980	10 7/16	8 5/16	4	75	4	14	**$3.30**
812990	12	9 3/16	6	100	2	11	**4.23**
813000	14	10½	6	150	2	13	**5.49**
813010	16	11¾	6	200	2	15	**7.08**
813020	18	13 3/16	6	300	1	14	**11.13**

*Number of pieces per carton.

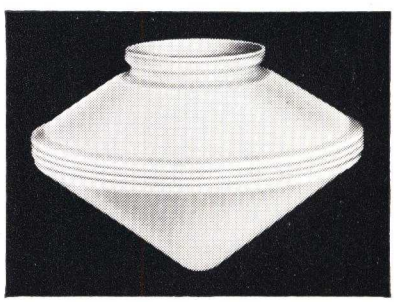
MACBETH MONAX BRAND GLASSWARE

ROUND BALL GLOBES



Cat. No	Diam. Inches	Depth Inches	Fitter Inches	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price Each
823200	6	6	3¼	24	2¢	**$1.26**
823220	8	8	4	12	24	**2.16**
800080	10	10	4	8	26	**3.45**
800060	10	10	5	8	26	**3.45**
800070	10	10	6	8	26	**3.45**
800020	12	12	6	2	12	**5.07**
800190	12	12	8	2	12	**5.07**
800090	14	14	6	1	10	**6.75**
800120	14	14	7	1	10	**6.75**
800140	14	14	8	1	10	**6.75**
800200	16	16	6	1	14	**9.60**
800040	16	16	8	1	14	**9.60**
800210	16	16	9	1	14	**9.60**
800030	18	18	8	1	19	**15.81**
800170	18	18	10	1	19	**15.81**
800150	20	20	8¼	1	28	**27.45**

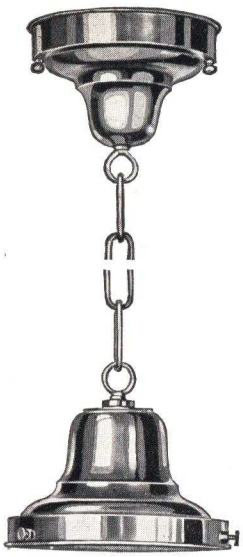
THE KEYSTONE



The Keystone is made from Monax Brand glass of high efficiency for general diffuse lighting. Of smart, streamline appearance, The Keystone will meet the popular demands of modern lighting. Provision has been made on the rim of each globe for use of a louvre if desired.

Cat. No.	Diam. Inches	Depth Inches	Fitter Inches	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price Each
816660	9¼	6 9/16	4	8 pc	20	**$2.34**
816670	12¼	8 3/16	6	2 pc	9	**4.23**
816680	14¼	9¾	6	2 pc	12	**5.55**
816690	16¼	10⅝	6	2 pc	16	**7.08**
816700	18¼	12 7/16	6	1 pc	12	**11.13**

VIRDEN LIGHTING FIXTURES



No. V-46 — 6 inch
No. V-45 — 4 inch



No. V-46-C — 6 inch
No. V-45-C — 4 inch

Cat. No.	Fitter Inches	Length Overall	Socket	Finish	Price Each
V-45	4	30	Med.	St. Bronze	$2.70
V-45	4	30	Med.	Chromium	3.95
V-46	6	30	Med.	St. Bronze	2.75
V-46	6	30	Mog.	Chromium	4.00
V-46M	6	30	Mog.	St. Bronze	3.40
V-46M	6	30	Mog.	Chromium	4.65
Casing Type					
V-45C	4	24	Med.	St. Bronze	4.20
V-45C	4	24	Med.	Chromium	5.45
V-46C	6	24	Med.	St. Bronze	4.25
V-46C	6	24	Med.	Chromium	5.50
V-46CM	6	24	Mog.	St. Bronze	4.90
V-46CM	6	24	Mog.	Chromium	6.15

Packed individually, 24 to standard carton.

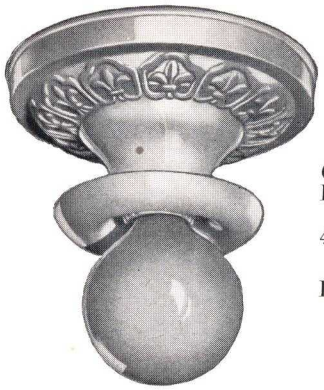
CEILING TYPE



No. V-34—4 inch
No. V-36—6 inch

Cat. No.	Fitter Inches	Socket	Finish	Price Each
V-34	4	Medium	St. Bronze	$1.85
V-34	4	Medium	Chromium	2.15
V-36	6	Medium	St. Bronze	1.90
V-36	6	Medium	Chromium	2.25
V-36M	6	Mogul	St. Bronze	2.65
V-36M	6	Mogul	Chromium	3.00

VIRDEN BEAMLIGHTS AND HOLDERS



No. V-42-E

Bare with strap.
Diameter of canopy 6¼ inches. Finish Ivory Pastelle.
Packed individually 45 to case.

Finish	Price
Ivory Pastelle	$0.75

No. V-51-E

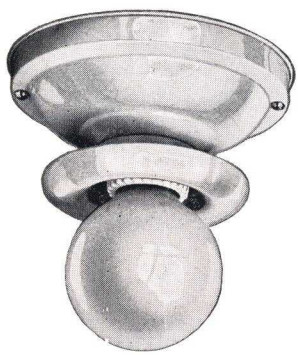
Bare with strap.

Diameter of canopy, 5½ inches. Finish Ivory Pastelle.

Packed individually, 48 to case.

Price .....each $0.65





No. V-40-E

Bare with strap.

Diameter of canopy, 5½ inches. Finish, Ivory, White enamel, statuary bronze, or chromium.

Finish	Price
White enamel	$0.53
Ivory	.53
Statuary bronze	.75
Chromium	1.13

No. V-53-E-CO

Streamline Holder with Convenience Outlet

Diameter canopy 4¾ in.; fitter 3¼ in. Bare with strap. 48 to case.

Finish	Price
White Enamel	$0.80
Chromium	1.00



No. V-53-E

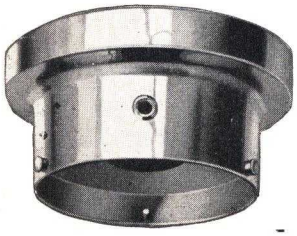
Streamline Holder Copperface Steel

Diameter canopy 4¾ in.; fitter 3¼ in. Bare with strap. 48 to case.

Finish	Price
White Enamel	$0.50
Chromium	.70
Glossy Black	.55



VIRDEN HOLDERS AND BATH BRACKETS



No. V-60-E

Streamline Kitchen Holder

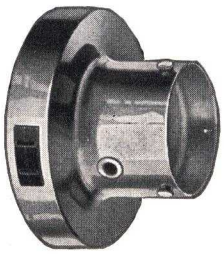
Diameter canopy 5½ in.; fitter 4 in. Bare with strap. Individually packed, 48 to case.

Finish	Price
White Enamel	$0.55
Chromium	.85

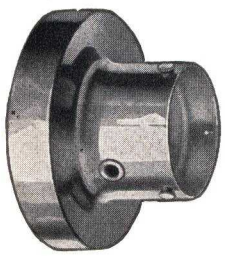
No. V-62-E-CO

Streamline Bath Bracket with Convenience Outlet

2¼ in. fitter. Diameter of canopy 4½ in. Bare with convenience outlet and strap. Individually packed, 60 to case.



Finish	Price
White Enamel	$0.77
Chromium	1.00



No. V-62-E

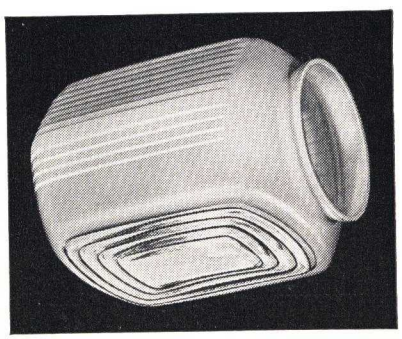
Streamline Bath Bracket or Ceiling Holder

2¼ in. fitter. Diameter canopy 4¾ in. Bare with strap. Individually packed, 48 to case.

Finish	Price
White Enamel	$0.48
Chromium	.70

MACBETH CRYSTAL GLASS

WALL BRACKET GLOBE



Crystal glass, top and side enameled, bottom clear, seared fitter. Decorated with white translucent enamel. For residential wall lighting, mirror lighting in bathrooms. Recommended for use with 40-60 watt bulb.

Cat. No.	Width Inches	Depth Inches	Length Inches	Fitter	Std. Pkg.	List Price Each
820019	5	4 1/16	6	3¼	36	**$0.81**

MACBETH CRYSTAL GLASS

CEILING GLOBE



Crystal glass, enameled sides, clear bottom, seared fitter, decorated with white translucent enamel, for residential ceiling applications. Recommended for use with 100 watt bulb.

Cat. No.	Diam. Inches	Depth Inches	Fitter Dia. In.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
820018	8	7	4	8	21	**$1.23**

MACBETH MONAX BRAND GLASSWARE

No. 824160 REFLECTOR

For 100/200/300 Watt Floor Lamp



Cat. No.	Diam. In.	Height In.	Fitter Inches	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
824160	10	5⅜	2⅞	6	16	**$1.02**

6 AND 8-INCH I.E.S. SHADES



No. 820090

Cat. No.	Diam. Inches	Depth Inches	Fitter Diam. Inches	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
820090	6	4 13/16	2¼	12	12	**$0.60**
820120	8	5¾	2¼	6	11	**.78**

ALABAX LIGHTING FIXTURES

STREAMLINED MODERN BRACKETS

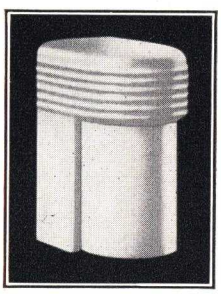


These numbers are recommended for use out of doors — at the front door—will not retain moisture — or bugs — glass is open at bottom.

For application to 3¼-inch or switch boxes.

Dimensions: Width, 3½ inches; height, 6¼ inches. Shipping weight, approximately, 330 lbs. per 100.

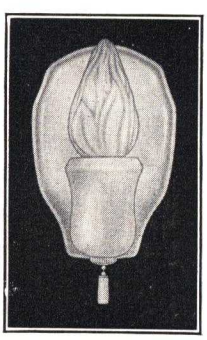
Cat. No.	Description	Price Each
AL-3130	Keyless, white glaze, with glass	$6.06
AL-3134	Keyless, black glaze, with glass	6.75
AL-3137	Keyless, ivory glaze, with glass	6.48
AL-3133	Glass tube only	1.44



Streamlined, modern brackets for use in bathroom. Will take up to 60-watt lamps. For application to 3¼-inch or switch boxes.

Dimensions: Width, 3½ inches; height, 6¼ inches. Shipping weight approximately 330 lbs. per 100.

Cat. No.	Description	Outlet	Price Each White	Price Each Black	Price Each Ivory
AL-3130	Keyless	No	$6.06	.....	.....
AL-3131	Push Switch	With	7.26	.....	.....
AL-3132	Push Switch	No	7.05	.....	.....
AL-3134	Keyless	No	.....	$6.75	.....
AL-3135	Push Switch	With	.....	7.95	.....
AL-3136	Push Switch	No	.....	7.38	.....
AL-3137	Keyless	No	.....	.....	$6.48
AL-3138	Push Switch	With	.....	.....	7.59
AL-3139	Push Switch	No	.....	.....	7.38
AL-3133	Glass tube only		1.44	.....	.....



SIDE WALL BRACKET

An attractive general purpose bracket to mount almost anywhere. Complete with fittings to apply to 3¼-inch or 4-inch boxes.

Supplied in white or ivory glazes.

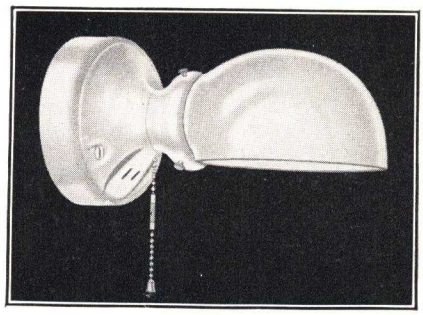
Length back, 6 3/16 inches; width back, 4 inches. Standard package, 12.

Cat. No.	Type	Outlet	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-3100	Pull	With	152	$3.36	$3.96
AL-3101	Pull	No	141	3.03	3.63
AL-3102	Keyless	With	152	3.03	3.63
AL-3103	Keyless	No	141	2.70	3.30

Prices do not include lamps.

ALABAX LIGHTING FIXTURES

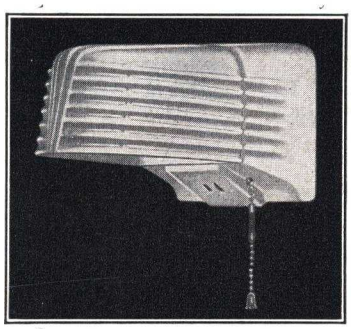
SIDE WALL BRACKET



For 3¼ or 4-inch boxes. Diameter of fixture, 4¾ inches. Internal snub in socket to protect switching mechanism, chain insulators are detachable. Supplied in white or ivory glazes. With glass as illustrated. Standard package, 12.

Cat. No.	Type	Outlet	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-2100 ND	Pull	With	280	$4.35	$4.80
AL-2101 ND	Keyless	With	268	4.02	4.47
AL-2102 ND	Pull	No	276	4.02	4.47
AL-2103 ND	Keyless	No	270	3.69	4.14

STREAMLINE WALL BRACKET

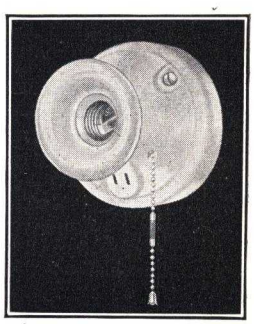


Streamlined beauty — glistening porcelain brackets — white opal 60 watt glass shade. Complete with P&S Alabax swivel strap. To facilitate hanging; with chain insulator and snub on the pull socket, with pure white opal glass, with Underwriters' label attached. Base of fixture — 4⅝ by 4⅝ inches.

Standard package, 12.

Cat. No.	Type	Outlet	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-2390	Pull	With	252	$4.83	$5.28
AL-2391	Pull	No	252	4.50	4.95
AL-2392	Keyless	With	268	4.50	4.95
AL-2393	Keyless	No	252	4.17	4.62

SIDE WALL BRACKET



Comes either with pull chain or keyless, with flared ring. For 3¼-inch or 4-inch boxes.

White glaze only.

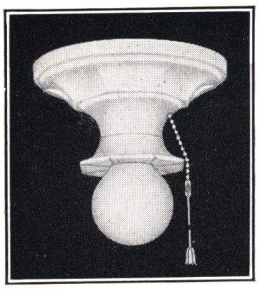
Diameter of fixture, 4¾ inches.

Standard package, 12.

Cat. No.	Type	Outlet	Wt. Lbs. Per 100	Price Each White
AL-2424 ND	Pull	With	190	$2.58
AL-2434 ND	Keyless	With	190	2.28

Prices do not include lamps.

ALABAX LIGHTING FIXTURES



BEAM LIGHT

Diameter 5½ inches. Supplied in the Alabax glazes—ivory and white.

Standard package, 12.

Cat. No.	Description	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-2400	Pull, short chain and long cord	200	$1.98	$2.43
AL-2401	Keyless	194	1.77	2.22

BEAM LIGHT

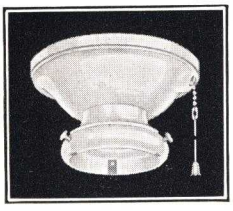
Cheaper beam lights. Not quite so deep. Chain exits nearer the center. Very satisfactory but not fully equal to AL-2007.

Supplied in white or ivory glaze. Normally supplied with long cord.

Diameter base: For 3¼-inch boxes, 4 inches; for 4-inch boxes, 4¾ inches.



Cat. No.	Description	For Boxes	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-2221	Pull	3¼	130	$1.56	$2.01
AL-2260	Keyless	3¼	120	1.32	1.77
AL-2222	Pull	4 or 3¼	157	1.80	2.25
AL-2259	Keyless	4 or 3¼	150	1.56	2.01



CEILING LIGHT

Diameter 4$\frac{13}{16}$ inches. 2¼-inch fitter. For 3¼-inch or 4-inch boxes. Supplied in white or ivory glaze.

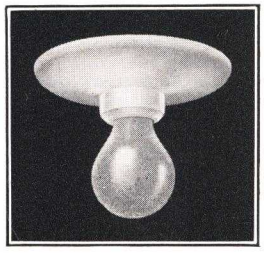
Standard package, 12.

Cat. No.	Description	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-849	Pull, short chain and long cord	135	$3.03	$3.57
AL-850	Pull, short insulated chain	135	3.03	3.57
AL-851	Keyless	155	1.95	2.61

ONE-LIGHT CEILING

Diameter 5½ inches. Keyless. For 3¼-inch or 4-inch boxes. Supplied in white or ivory glaze.

Standard package, 12.



Cat. No.	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-3141	104	$1.35	$1.80

Prices do not include lamps.

ALABAX LIGHTING FIXTURES



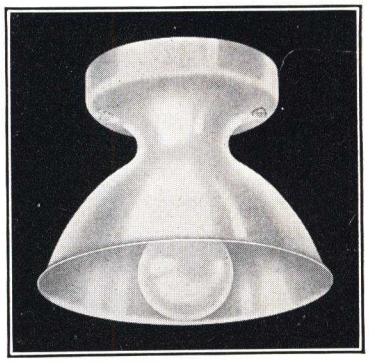
CEILING LIGHT

Diameter 4¾ inches. 2¼-inch fitter. For 3¼-inch or 4-inch boxes Supplied in white or ivory glaze.

Standard package, 12.

Cat. No.	Description	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-2009-ND	Pull, short chain and long cord	182	$2.04	$2.49
AL-2012-ND	Keyless	165	1.83	2.28

KITCHEN UNIT



Designed for use with 100-watt lamps. Diameter of reflector, 8 inches; diameter of base, 5½ inches; overall height, 6½ inches.

Standard package, 12.

Cat. No.	Description	Wt. Lbs. Per 100	Price Each
AL-2032	Keyless	364	$4.98
AL-2033	With Pull Switch	372	7.05



VAPORPROOF CEILING FIXTURE

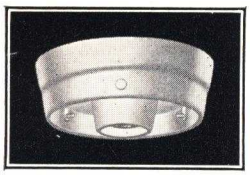
This vaporproof fixture is supplied with glass, as listed; no lamp.

For 3¼-inch or 4-inch boxes. Diameter of base, 5$\frac{7}{32}$ inches. Standard package, 12.

Cat. No.	Description	Lamp Watts	Price Each White	Price Each Ivory
AL-2300	With 5-in. CRI glass	25-75	$3.99	$4.56
AL-2304	Glass only	25-75	1.26	.....
AL-2303	With 5-in. Opal glass	25-75	3.99	4.56
AL-2307	Glass only	25-75	1.86	.....
AL-2301	With 6-in. CRI glass	25-100	4.38	4.95
AL-2305	Glass only	25-100	1.41	.....

Prices do not include lamps.

ALABAX LIGHTING FIXTURES



KEYLESS CEILING FIXTURE

White or ivory glaze finish. 4-inch fitter. Diameter of fixture, 5 3/32 inches. For 3¼ or 4-inch boxes.

Cat. No.	Type	Std. Pkg.	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-2072	Keyless	12	170	.....	$2.91
AL-2073	Keyless	12	170	$2.07	.....

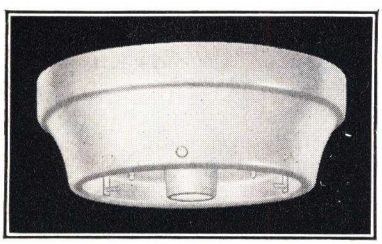


CEILING FIXTURE

White or ivory glaze finish. 4-inch fitters. Diameter of fixture, 4¾ inches. For 3¼ or 4-inch boxes.

Cat. No.	Type	Std. Pkg.	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-2013-ND	Pull	12	230	$2.25	$2.70
AL-2015-ND	Keyless	12	230	2.04	2.49

KEYLESS CEILING FIXTURE



Keyless. May be supplied with chain hole to engage Levolier switch No. 43.

White glaze finish. 6-inch fitter.

Standard package, 12.

Cat. No.	Base	Diam. In.	Wt.Lbs. Per 100	Price Each
AL-2204	Medium	6⅞	488	$5.88
AL-2205	Mogul	6⅞	500	6.75

KITCHEN UNIT



A 4-inch fitter or kitchen unit of graceful design. Has ample depth to meet any and all box conditions, including old gas pipe. Complete with fittings. Base, 5¾ inches. For 3¼-inch or 4-inch boxes.

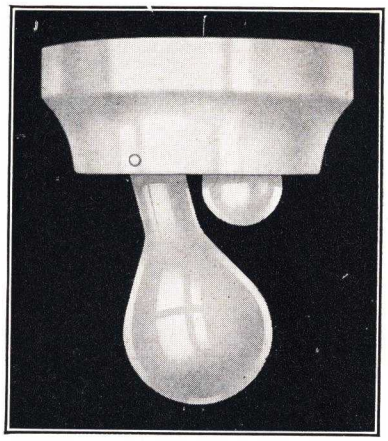
Standard package, 12.

Cat. No.	Type	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-2019	Pull, short chain and long cord	224	$2.73	$3.33
AL-2020	Keyless	215	2.52	3.12
AL-2023	Keyless, with hole for Levolier Switch	240	2.67	3.27

Prices do not include lamps.

ALABAX LIGHTING FIXTURES

No. AL-2671 NL CEILING FIXTURE

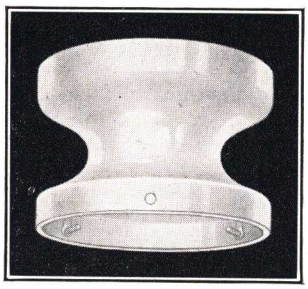


Fixture is equipped with two medium base, keyless sockets — one socket for principal light — which may be used with any desired size lamp up to and including 300 watts — the other socket — being used with 10, 15, 25 or 40 watt lamps — for purpose of night light — or subdued illumination.

No lamps are included, lamps are shown simply for illustration.

Fixture is supplied only in the keyless form. Can be supplied with suitable hole on the side of the fixture to engage Levolier pull switch No. 43, thereby obtaining dual control, without expensive wiring. Side-wall switch controlling the larger lamp, Levolier switch controlling the small lamp.

Cat. No.	Fitter Dia. In.	Dia. In.	Std. Pkg.	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-2671 NL	6	9	12	645	$6.84	$7.59



CEILING FIXTURE

Keyless. 6-inch fitter. May be supplied with chain hole to engage Levolier switch No. 43. Diameter 6⅞ inches.

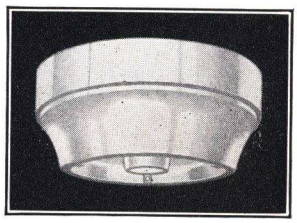
Standard package, 12.

Cat. No.	Base	Price Each
AL-2250	Med.	$5.61
AL-2252	Mog.	6.75

CEILING FIXTURE

Keyless. 4-inch fitter. For 3¼-inch or 4-inch boxes. Diameter of fixture, 6½ inches. White or ivory glaze.

Standard package, 12.



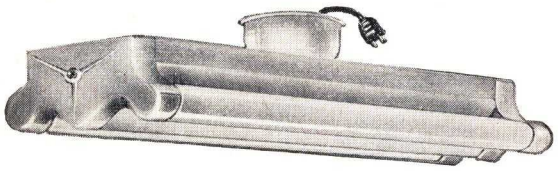
Cat. No.	Description	Wt. Lbs. Per 100	Price Each White	Price Each Ivory
AL-10012	Keyless	310	$2.64	$3.39
AL-10013	Pull, short chain and long cord	315	3.27	4.02

Prices do not include lamps.

MOE LIGHT PRODUCTS

TWO-LIGHT FLUORESCENT

M-1124 (Adapter Type)
M-1324 (Permanent Installation)

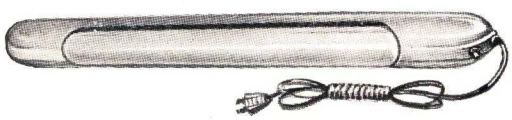


No. M-1124

Two-light fluorescent. Efficient and economical. Adapter slips into present shade holder or may be removed entirely for permanent mounting. Finished in gleaming Bonderized-Baked White Enamel with White or Chromium End Caps. 25½ inches long, 6½ inches wide. For A.C. only.

Price, **M-1124** (Adapter Type)
M-1324 (Permanent Installation)
White End Caps.....each **$7.95**
Chrome End Caps.....each **8.95**
(Less Fluorescent Lamps)

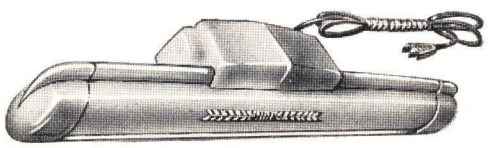
M-218 PORTABLE LIGHT



A clever portable light that can be used anywhere. Mount it horizontally or vertically — especially suitable for lighting counters under kitchen cupboards and bathroom mirrors. White or chrome. 25 inches long. A.C. only.

Price, No. **M218** Fluorescent Portable
White .....each **$5.95**
Chrome .....each **8.70**
(Price includes fluorescent lamp)

M-418 BED AND WALL LAMP



The most versatile bed lamp on the market today. Easy on the eyes — gives plenty of light. Adjustable for direct or indirect illumination. Can be clipped on furniture or mounted on the wall. Ivory, Gold or Mahogany, 19½ inches long, 3½ inches deep. Has built-in radio interference suppressor. For A.C. only.

Price, No. **M-418** Bed Lamp.....each **$12.95**
(Price includes fluorescent lamp)

MOE LIGHT PRODUCTS

CEILING LIGHT



Gleaming chrome with white opal glass. Available in four popular sizes.

Cat. No.	Description	Price
M-406	—One light. Dia. 7". Depth 5"	**$2.90**
M-408	—Two light. Dia. 9". Depth 4½"	**3.90**
M-410	—Two light. Dia. 11". Depth 4¾"	**5.35**
M-412	—Three light. Dia. 13". Depth 5"	**6.95**

Pull switch easily added.

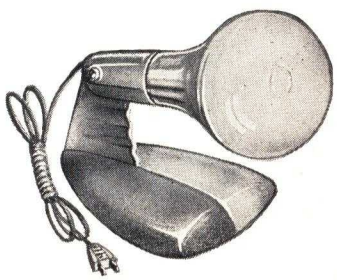


BATHROOM FIXTURE

Canopy diameter 4½ inches; length 6 inches; extends 4½ inches. Canopy switch. Finish: Chromium.

Price, No. **M-121** Bathroom Fixture ..... each **$3.25**

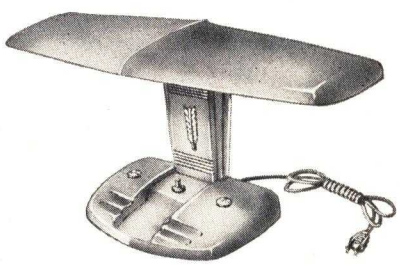
M-77 LAMP HOLDER



For all reflector-type heat lamps, sun lamps, spot lamps and flood lamps. New, patented base permits it to be used anywhere in dozens of ways. Tested and approved by Underwriters' Laboratories. Available in either Rust Brown, or Pearl Gray.

Price, No. **M-77** Lamp Holder.....each **$2.95**

M-1000 AND M-2000 DESK LAMPS



A Desk Lamp in a pleasing, modern design. Attractively finished in Desert Brown, Mahogany, Pearl Gray, or Cobalt Blue. Padded base plate. Ornaments can be removed easily to permit installation of pen sets. Has built-in radio-interference suppressor. For A.C. only.

Price, **M-1000** One Light Desk Lamp....each **$9.95**
Price, **M-2000** Two Light Desk Lamp....each **13.95**
(Price includes fluorescent lamp)

FARIES INCANDESCENT LAMPS



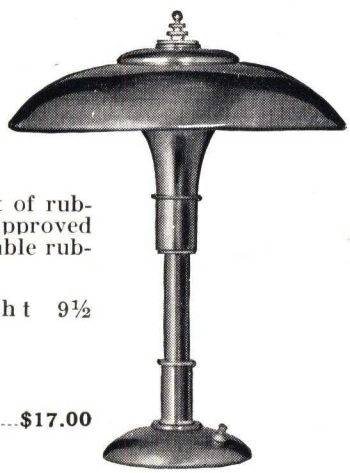
No. 60243

For use with 100-watt incandescent bulb. Height overall 12¾ inches; shade 11 inches diameter; base 7⅞ inches diameter; turn-button switch; inside of shade and reflector finished baked white enamel.

Electroplated Statuary Bronze **$18.50**

Shipping weight 9½ pounds.

No. 60242 "GUARDSMAN"



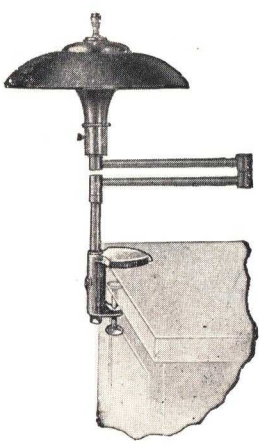
An effective attractive desk lamp. Height, 17½ inches over-all. Shade, 13 inches diameter. For 100-watt bulb. Switch in base of lamp.

Wired with 9 feet of rubber covered cord, approved socket and unbreakable rubber plug.

Shipping weight 9½ pounds.

Statuary Bronze and Gold **$17.00**

No. 55207 "GUARDSMAN" CLAMP



An ideal type of desk clamp lamp. Designed for the better type of offices where the entire working area of the desk must be kept clear. Swings either left or right and arm can be turned so as to take up a minimum of room.

Adjustable clamp for mounting to desk or counter opens up to 2⅝ inches. Arm extension 21 inches from center of lamp to clamp. Bottom of lamp 5½ inches from desk. Shade, 13 inches. Wired with turn button socket.

Shipping weight 7½ pounds.

Statuary Bronze and Gold.....**$22.50**

FARIES INCANDESCENT LAMPS

No. 60223 "GUARDSMAN"



Guardsman lamp is made of steel. Height overall 15½ inches. Distance from bottom of shade to desk level 12 in.

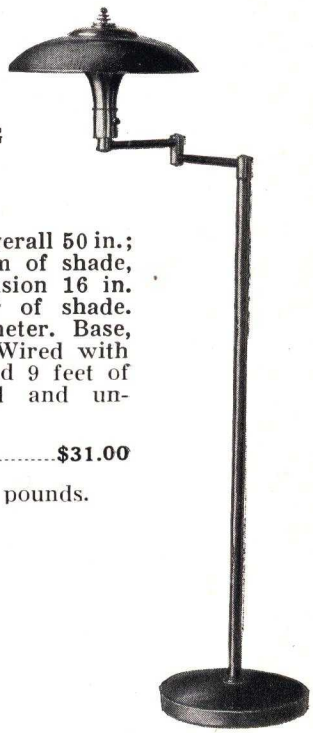
Shade 12 inches in diameter—frosted aluminum inside. Base: Heavily weighted, 6½ inches in diameter. For use with 100-watt bulb. Equipped with approved socket and plug and 8 feet of rubber covered cord.

Electroplated Statuary Bronze **$12.50**

Gun Metal and Brass..... **11.00**

Shipping weight, 6 pounds.

No. 65202
GUARDSMAN SWING ARM FLOOR LAMP



Maximum height, overall 50 in.; height floor to bottom of shade, 45 inches; arm extension 16 in. from stem to center of shade. Shade, 13 inches diameter. Base, 12 inches diameter. Wired with turn button socket and 9 feet of rubber covered cord and unbreakable plug.

Statuary Bronze **$31.00**

Shipping weight 36 pounds.

No. 85880 ADJUSTABLE PULPIT LAMP



Base 2¼ inches square. Attaches to pulpit with 4 screws. Extension adjustable 11 to 16 inches, spread 9 inches. Reflector rotates on socket reflecting light at any angle. For 25 watt tubular lamp. Wired with 6-foot cord, push socket and plug.

Price, No. **85880** Electroplated Statuary Bronze .....each **$13.50**

FARIES ADJUSTABLE PORTABLES



No. 60153 DESK LAMP

With 9-Inch Flexible Arm

Maximum height, 26 inches. Extends any direction 16 inches. Extra heavy felt covered base. Wired with 9 ft. cord, key socket, plug and shade.

Electroplated Statuary Bronze **$8.50**

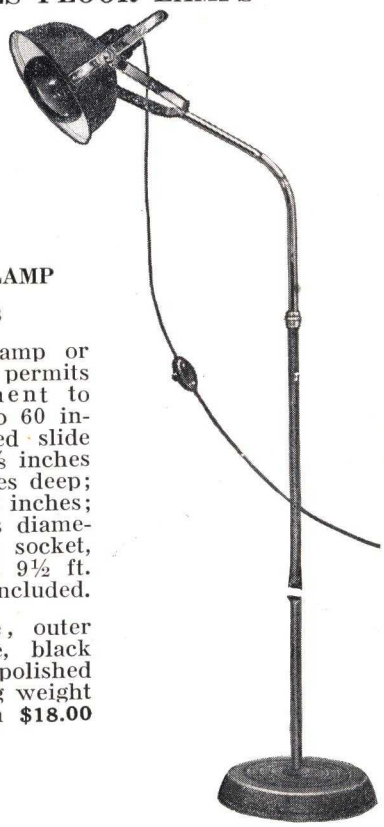


No. 60591 DESK LAMP

A flexible arm lamp that is sturdy and will withstand hard use. Modern designed base, heavy in weight and felted. Strong 6½-inch metal shade. Height over all 21½ inches. Equipped with standard turn-button socket, 6 foot approved cord and plug.

Sprayed Bronze **$3.85**

FARIES FLOOR LAMPS



SPECIALTY LAMP

No. 99103

Two-way sunlamp or heatlamp stand, permits instant adjustment to any height, 39 to 60 inches, by patented slide fitting. Shade 8⅝ inches diameter; 5 inches deep; arm extension 18 inches; base 10½ inches diameter. Porcelain socket, feed-thru switch, 9½ ft. cord. No bulbs included.

Finish: Base, outer stem and shade, black ripple; balance, polished chrome. Shipping weight 20 pounds....each **$18.00**

FARIES SHOWCASE REFLECTOR

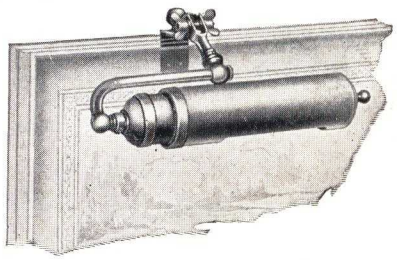


Has one-piece snap-on holder for brass shell sockets. Made of brass, inside frosted. For 25 watt tubular lamp.

Cat. No.	Finish	Lgth. In.	Diam. In.	Std. Pkg.	Price Each
8505	Statuary Bronze	6½	1¾	24	**$2.00**
8505A	Nickel Plate	6½	1¾	24	**2.00**

FARIES PICTURE REFLECTORS

No. 80878 1-LIGHT PICTURE REFLECTOR



Adjustable bracket attached to back of picture or top of cabinet. Extends 5 inches, spread 9 inches. Reflector rotates on socket reflecting light at any angle.

For 25 watt tubular lamp. Wired with 6 feet of cord, pull chain socket and plug.

Price, No. **80878** Matte Gold..... **$8.00**
Electroplated Statuary Bronze **8.50**

No. 80879 2-LIGHT PICTURE REFLECTOR

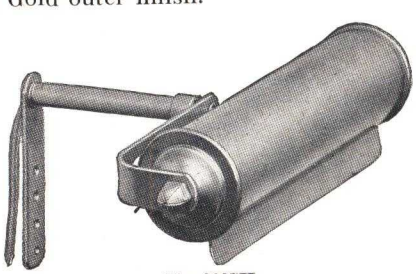
Same as No. 80878 except 2-light for two 25-watt tubular lamps.

Price, No. **80879** Matte Gold..... **$12.50**
Electroplated Statuary Bronze **13.00**

NORTHERN PICTURE LIGHTS

The efficiency of "NORTHERN LIGHTS" will enhance the beauty of your picture while the simplicity of its design renders the fixture inconspicuous.

Vertical adjustment is obtained by elevating holder. Telescopic slide arm permits extension from minimum length of 4 inches to maximum of 7 inches. Reflector adjustable to desired angle. Chromium plated mirror lined reflector with Roman Gold outer finish.



No. 6607H

Cat. No.	Length of Reflector	Diameter Reflector	Price Each
6605H	5 inches	1½ inches	**$4.00**
6607H	7 inches	1¾ inches	**4.00**
	2-Light Unit		
6615H	15 inches	1¾ inches	**$6.00**

SWIVELIER UNIVERSALLY ADJUSTABLE LIGHTING PRODUCTS

All Adjustable Swivelier Products have these Features and Advantages: No wing nuts or set screws—spring tension socket—Universally Adjustable. Will not work loose regardless of Number of Adjustments. "Stays Put—At Any Angle."



TORPEDO SINGLE EXTENSION UNITS

Completely Assembled Ready to Install

Cat. No.	Length Pipe	Wt.Lbs., Std.Pkg.	Price Each
B80-6	6″	2½	**$11.00**
B80-12	12″	2½	**11.50**
B80-24	24″	3	**12.50**
B80-36	36″	3	**13.50**
B80-48	48″	3½	**14.50**
B80-60	60″	3½	**15.50**

Individually boxed, 1 to standard package.

SINGLE "TORPEDO" CANOPY UNIT

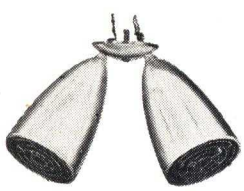
Completely wired ready to install. For attachment to 3¼ inch or 4 inch outlet box.

Cat. No.	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
B81	6	13	**$9.50**

Individually boxed.



"CLUSTER TORPEDO" UNITS



Clusters of 2, 3 or 4 Torpedo Shades on one canopy. Attached to 3¼ or 4-inch box.

Cat. No.	Cluster	Pkg. Wt.	Price Each
B82	2	2½	**$17.50**
B83	3	3½	**25.00**
B84	4	4½	**32.50**

"CLUSTER TORPEDO" PIPE UNITS

Double (2) Cluster Units

Cat. No.	Length of Pipe	Pkg. Wt.	Price Each
2B79-6	6″	4	**$24.50**
2B79-12	12″	4½	**25.00**
2B79-24	24″	5	**26.00**
2B79-36	36″	5½	**27.00**
2B79-48	48″	6	**28.00**
2B79-60	60″	6½	**29.00**

Clusters of 2, 3 or 4 Torpedo Shades mounted on one canopy.

Furnished in pipe lengths of 6 to 60 inches.



SWIVELIER UNIVERSALLY ADJUSTABLE LIGHTING PRODUCTS



TORPEDO "CLAMP-ON" UNIT

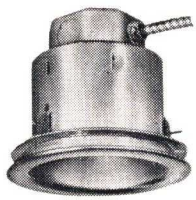
Clamps on to any flat or cylindrical surface up to 1-inch diameter.

Sturdily constructed clamp of heavy gauge steel, felted to prevent scratching.

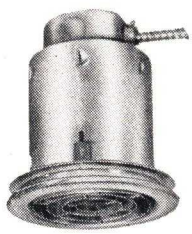
Cat. No.	Std. Pkg.	Pkg. Wt.	Price Each
B817	6	10	**$8.75**

SWIVELIER "TOP-LITES"

Recessed Lighting Units



No. 807



No. 811

Made of heavy gauge aluminum with steel plaster rings. Edge of lip rolled to improve appearance. Complete one-piece assembly—for quick easy installation. Includes 4 ft. Greenfield cable. All screws concealed. Accommodates R40 or PAR38 bulbs.

Cat. No.	Description	Std. Pkg.	Wt.Lbs., Std.Pkg.	Price Each
807	No Louver	12	30	**$6.00**
811	With Louver	12	36	**8.00**

"TORPEDO" PORTABLE UNIT



Highly polished Chromium-plated, or Brushed Satin with Infra-baked clear lacquer. Comes with 6 ft. cord and plug; weighted base to prevent tipping. Hole in back of base for wood-screw mounting.

Cat. No.	Finish	Std. Pkg.	Wt.Lbs., Std.Pkg.	Price Each
B627SA	Brushed Satin	6	25	**$ 9.50**
B627CR	Chromium Plated	6	25	**14.75**

"TORPEDO" CURVED PIPE UNITS

Available in 12″ or 24″ arm with leads, or with cord, plug and switch.

Cat. No.	Length Pipe	Price Each
	With Leads	
B86	12″	**$12.00**
B88	24″	**13.00**
	With Cord, Plug and Switch	
B92	12″	**12.75**
B94	24″	**13.75**



SWIVELIER UNIVERSALLY ADJUSTABLE LIGHTING PRODUCTS

ECONOMICAL — INFRA-BAKED FINISH "HOOD" SHADE UNITS



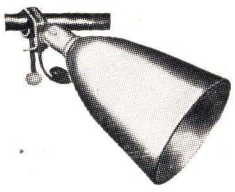
"HOOD" EXTENSION UNITS

Completely assembled, ready to install. Pipe lengths, 5 to 48 inches. Brings the light down to where wanted.

Cat. No.	Pipe Length	Wt.Lbs., Std.Pkg.	Price Each
H57-5	5″	3½	**$ 7.60**
H57-11	11″	4	**8.30**
H57-24	24″	4½	**9.85**
H57-36	36″	5	**11.30**
H57-48	48″	5½	**12.75**

Individually boxed, one to a carton.

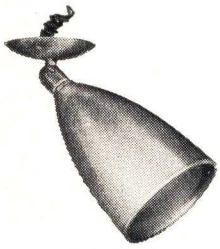
"HOOD CLAMP-ON" UNIT



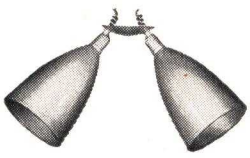
For adjustable clamp attachment completely wired, ready to plug in. Comes with cord and plug. Up to 1-inch diameter clamp.

Price, No. **H817** Hood Shade Unit ....each **$7.65**

HOOD COMBINATION AND CLUSTER UNITS ON DOME PLATE



No. H-57



Clusters of 2, 3 or 4 Hood Shades on One Dome Plate.

Completely wired, ready to install, on 3¼-inch or 4-inch outlet box.

Cat. No.	Description	Std. Pkg.	Wt.Lbs., Std.Pkg.	Price Each
H57	On Combination Plate	6	10	**$ 6.90**
H257	Two Clusters	1	4	**13.80**
H357	Three Clusters	1	5	**20.70**
H457	Four Clusters	1	6	**27.60**

"HOOD" PORTABLE UNIT



New streamlined design. Comes completly wired with cord and plug ready to plug in. Felted smooth base, weighted, prevents scratching. Streamlined Hood Shade accommodates PAR 38 and R40 bulbs.

Price, No. **H607** .....each **$7.50**

SWIVELIER UNIVERSALLY ADJUSTABLE LIGHTING PRODUCTS

"HOOD" SCREW-IN UNITS



H107-8



H107

Easy to install, screw into existing receptacles. Converts any rigid socket into a Universally Adjustable Spot-Lite.

Cat. No.	Pipe Length	Length Overall	Std. Pkg.	Wt.Lbs., Std.Pkg.	Price Each
H107	None	12⅜″	6	9	**$ 6.50**
H107-5	5″	16½″	6	16	**7.25**
H107-8	8″	19½″	6	16	**7.65**
H107-11	11″	22½″	6	17	**8.10**

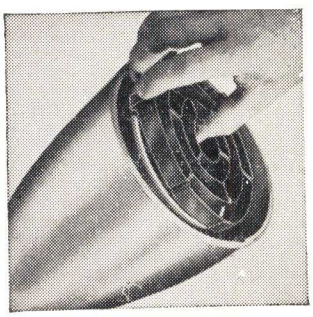
"HOOD" CURVED ARM UNIT



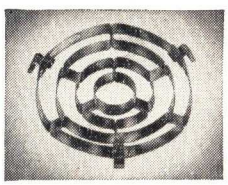
Available in 12 or 24-inch arm, with leads or with cord, plug and switch.

Cat. No.	Pipe Lgth.	Wt.Lbs., Std.Pkg.	Price Each
With Leads			
H56-12	12″	2	**$9.25**
H56-24	24″	2½	**10.00**
With Cord, Plug and Switch			
H58-12	12″	2½	**10.00**
H58-24	24″	3	**10.75**

SWIVELIER LOUVER



Installation of Louver



Cat. No. V

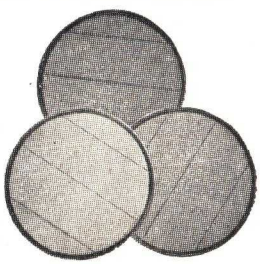
For use with "Hood" and "Torpedo" Shades. Spring clips attach to lip of shade. Made of steel.

Price, No. V Swivelier Louver.....each **$1.50**

SWIVELIER SECTIONAL COLOR LENSES

Attaches to inner spring clip on louver.

Cat. No.	Color	Price Each
999-1	Ruby Red ..	**$0.80**
999-2	Deep Blue ..	**.65**
999-3	Med. Amber	**.80**
999-4	Med. Green..	**.65**



SWIVELIER UNIVERSALLY ADJUSTABLE LIGHTING FIXTURES

SINGLE SOCKET ON 3¼" OR 4" FLAT BOX PLATES


No. 547L

Cat. No.	Mechanism	Size Cover	Price Each
	No Leads		
530	Push-thru	3¼"	**$1.75**
540	Push-thru	4 "	**1.80**
537	Porcelain	3¼"	**1.70**
547	Porcelain	4 "	**1.75**
	With Leads		
530L	Push-thru	3¼"	**1.95**
540L	Push-thru	4 "	**2.00**
537L	Porcelain	3¼"	**1.90**
547L	Porcelain	4 "	**1.95**

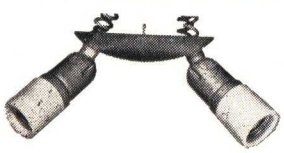
SINGLE SOCKET ON COMBINATION PLATE

For attachment to 3¼-inch or 4-inch boxes. Wired with leads. No. 57 porcelain socket, keyless.



Cat. No.	Mechanism	Size Cover	Price Each
50	Push-thru	4¾"	**$2.30**
57	Porcelain	4¾"	**2.25**

SOCKET "CLUSTER" UNITS



With leads. Two, 3 or 4 sockets on one dome. Fits 3¼-inch or 4-inch outlet boxes. Completely assembled, ready to install.

Cat. No.	Clusters	Std. Pkg.	Wt.Lbs., Std.Pkg.	Price Each
2547	2	10	14	**$3.70**
3547	3	10	17	**5.60**
4547	4	10	20	**7.45**

WEATHERPROOF GASKET

Gasket fits on porcelain and hugs neck of PAR 38 bulbs making tight seal. Makes a simple and inexpensive "yard-light" for outdoor use.



Price, No. **945-4** Rubber Gasket .....each **$0.15**

"TEAR DROP"—PORTABLE UNIT



Available in chrome-plated or brushed-satin finish. Heavy weighted base, felt bottom. Hole in back of base for wood screw attachment. Complete with cord and plug, ready for use.

Cat. No.	Finish	Std. Pkg.	Wt.Lbs., Std.Pkg.	Price Each
627CR	Chromium plated	12	30	**$6.50**
627SA	Brushed Satin	12	30	**3.50**

"NIMBLE-LITE"

Infra-baked aluminum finish. Weighted base with two holes for screw attachment. Felted to prevent scratching. Complete with cord and plug.



Price, No. **607** "Nimble-Lite" **$2.60**

SWIVELIER UNIVERSALLY ADJUSTABLE LIGHTING FIXTURES


No. 107


No. 107-8

SCREW-IN UNITS

Completely wired, ready to screw-in. With or without extension pipes. Converts any rigid socket into a Universally Adjustable Spot Lite. Provides adjustable lighting from recessed ceiling fixtures.

Finish—Infra-baked aluminum lacquer.

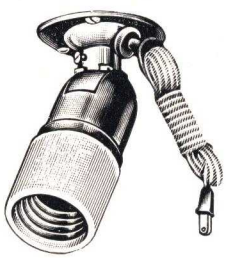
Cat. No.	Pipe Length	Length Overall	Std. Pkg.	Wt.Lbs., Std.Pkg.	Price Each
	With Push-Thru Mechanism				
100	None	5¼"	10	5	**$1.70**
	With Porcelain Keyless Mechanism				
107	None	5¼"	10	5	**1.60**
107- 5	5"	10⅛"	10	7	**2.35**
107- 8	8"	13⅛"	10	7	**2.75**
107-11	11"	16⅛"	10	7	**3.20**

SWIVELIER "CLAMP-ON" UNIT

Porcelain keyless or push-thru mechanism. Attach to flat or round surface. Adjusts to fit up to 1-inch flat or round pipes.



Cat. No.	Mechanism	Std. Pkg.	Pkg. Wt.	Price Each
817	Porcelain	10	9	**$2.75**
810	Push-thru	10	9	**2.80**



"ESCUTCHEON" UNIT

Porcelain, keyless. Complete with cord and plug. Ready to use. Two (2)-inch diameter plate, three (3) holes for "pin-up" attachment.

Price, No. **517** .....each **$2.00**

SWIVELIER "ALL-PURPOSE" LAMP

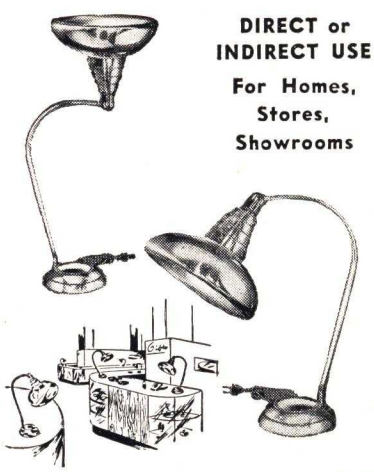
DIRECT or INDIRECT USE

For Homes, Stores, Showrooms

Excellent for highlighting:

Jewelry
Hosiery
Lingerie

when used with Blue-Daylight Bulb.



Choice of two rich finishes. Complete with cord, plug and switch.

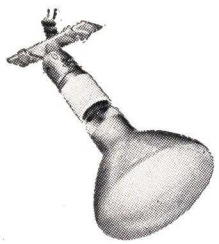
Cat. No.	Finish	Price Each
960SA	Brushed Satin	**$13.50**
960CR	Chrome Plate	**14.95**

SWIVELIER Universally ADJUSTABLE CHANNELITES

For Use On Wiremold Raceways Nos. 2100 and 3000

FOR USE ON WIREMOLD RACEWAY No. 2100

Bare Unit



No. 721
List Price $2.25
Carton 12
Carton weight 7

Air-Cooled Unit



No. F721
List Price $4.25
Carton quantity 6
Carton weight 11

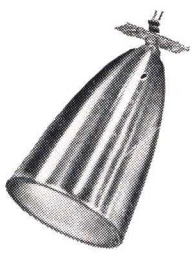
Finish: Infra-Baked aluminum.
Wired with leads, ready to install.

Hood Shade Unit



No. H721
List Price $7.15
Carton quantity 6
Carton weight 11
Finish: Infra-Baked Aluminum.

Torpedo Shade Unit

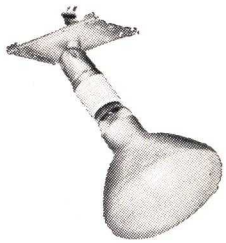


No. B721
List Price $8.25
Carton quantity 6
Carton weight 11
Finish: Brushed Satin.

Wired with leads, ready to install.

FOR USE ON WIREMOLD RACEWAY No. 3000

Bare Unit



No. 730
List Price $2.45
Carton quantity 12
Carton weight 8

Air-Cooled Unit



No. F730
List Price $4.45
Carton quantity 6
Carton weight 12

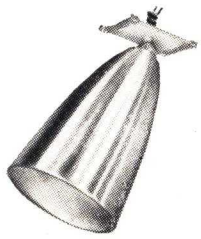
Finish: Infra-Baked aluminum.
Wired with leads, ready to install.

Hood Shade Unit



No. H730
List Price $7.35
Carton quantity 6
Carton weight 12
Finish: Infra-Baked Aluminum.

Torpedo Shade Unit



No. B730
List Price $8.45
Carton quantity 6
Carton weight 12
Finish: Brushed Satin.

Wired with leads, ready to install.

SWIVELIER "NIMBLE-LITES"

With Extension Arm and Swivelier Socket



T-605-12GR2
Switch in Base

For use on assembly tables, work benches, drafting boards, desks, etc. Furnished complete — with shade, socket, arm, base, wire and cap — ready to attach to machine or bench, plug in, and use. Weighted base, will not tip.

Individually boxed 12 units to standard carton; carton weight, 51 lbs.

Cat. No.	Shade	Arm Length Inches	Color	List Price
P600-12W3BR	Parabola	12	Bronze	**$5.10**
T605-12GR2	Bell	12	Grey	**6.15**

All Prices Less Bulb



P-600-12W3BR
Push-Thru Mechanism

SWIVELIER "HEAT LAMP-SUN LAMP" FIXTURES

SWIVELIER "DO-IT-ALL" UNITS

Hang It—Clamp It—Set It



No. 617 AN

Use with Infra-Red heat bulbs or Ultra-Violet sun lamps, or with any type house bulb. Rubber lined spring clamp attaches to back of chair or other flat surface. When clamp is not in use, folds back into base; then use as a portable unit to hang or set.

Cat. No.	Finish	Mechanism	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
610BR*	Bronze	Push-thru	12	18	**$3.05**
617BR	Bronze	Porcelain	12	18	**2.95**

*For use with Uno-thread shades.

HEAT-LAMP AND SUN-LAMP FIXTURES



No. 907BR



No. 975BR

For use with various type Self-Reflecting bulbs, including Heat bulbs. Complete with cord and cap, ready to plug in and use.

No wing nuts or set screws to adjust. Socket will not work loose, regardless of number of adjustments. Felt-covered base, prevents scratching. Infra-baked bronze finish. Heavy weighted smooth base, prevents tipping.

Cat. No.	Description	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Each
904-BR	No switch	12	48	**$3.95**
907-BR	Switch in Base	12	48	**5.00**
975-BR	With Wire Guard	12	60	**7.95**

Price does not include bulb.

DISINFECTAIRE ULTRA-VIOLET GERMICIDAL UNITS

(Reg. U.S. Pat. Off.)

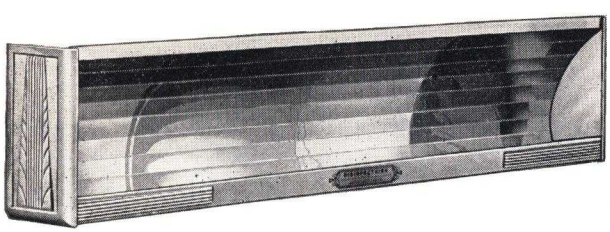
For the Disinfection of Air

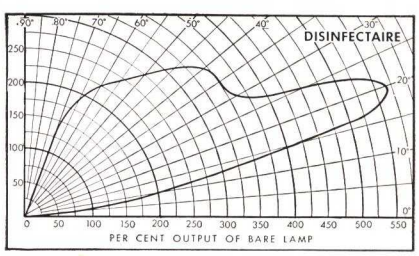
Disinfectaire Units which utilize the G.E. Germicidal Lamps effectively and efficiently produce ultra-violet bactericidal radiation for the disinfection of air. Through their use the germ-killing powers of sunlight are brought indoors.

The possibility of contracting disease communicable by air-borne bacteria can be reduced by disinfecting the air with Ultra-violet Germicidal radiation. Careful research has proven short-wave (2537A) ultra-violet radiation will kill air-borne bacteria, provided the bacteria are exposed to this energy of sufficient intensity for a long enough period of time.

FOR UPPER-AIR DISINFECTION—WALL TYPE

Patented





For general use in all interiors. The unit should be installed on the walls not less than 7 feet above the floor. For a small area where one unit suffices, it should be located in the center of the wall space for best results. The reflector has an asymmetric distribution redirecting the bactericidal radiation toward the upper central portion of the area.

Finish: Silvwhite enamel with chrome trim. **Reflectors:** Specular Alzak Aluminum. Cat. Nos. 2925 and 2926 have cast polished aluminum end plates. For 110-125 Volt 60 Cycle A.C. operation.

Cat. No.	Wattage	Size, Inches Length	Height	Extends
2925A	15	19½	7½	3¾
2925B	15	19½	7½	3¾
2926A	30	37½	7½	3¾
2926B	30	37½	7½	3¾
3090A	8	12¼	5½	2½
3090B	8	12¼	5½	2½

Mounting Type	List Price Less Lamp
Portable—with 8′ cord and plug	**$36.25**
Permanent—outlet box mounting	**36.25**
Portable—with 8′ cord and plug	**50.00**
Permanent—outlet box mounting	**50.00**
Portable—with 8′ cord and plug	**25.70**
Permanent—with 8′ cord and plug	**25.70**

DAZOR FLOATING LAMPS

For Fluorescent or Incandescent Lighting

The Dazor Floating Lamp may be raised, lowered, pushed, pulled, folded, twisted, swung completely around at a mere touch — and it "stays put" without any further adjustment or locking.

The Dazor Floating Lamp provides a choice of four bases, suitable for virtually any application on machine, bench, wall, drawing board, desk or floor. These standard models are available with either fluorescent or incandescent lighting and for all ordinary lighting currents. Standard finish, brown baked enamel over bonderizing. Gray, green, white, cream white, brown wrinkle, black wrinkle or ivory tan available on special order.

UNIVERSAL MODEL

For clamping or screwing to any surface — horizontal, vertical or sloping. Clamp fitting is removable; screws furnished with each unit. Auxiliary installed in housing beneath spring mechanism.

No. UL-1134-16, 110-volt, 60-cycle. For 1-T8-15W Fluorescent tube.

No. UL-2134-16, 110-volt, 60 cycle. For 2-T8-15W Fluorescent tubes.

Numbers with Prefix "P" indicate High Power Factor.

No. UL-3134-R1 Incandescent, with R1 Circular Reflector.

Above numbers specify 34-inch arm extension. Substitute "24" for "34" to specify 24-inch arm.

See following page for specifications and price list.



Fluorescent Universal Model

BRACKET MODEL

A goose-neck iron bracket forms the base of this Dazor model. Fastens to underside of drawing board, leaving upper edge of board clear for T-square. Board cover rolls into goose-neck. Auxiliary installed in housing underneath spring mechanism.

No. UL-1434-16, 110-volt, 60-cycle. For 1-T8-15W Fluorescent tube.

No. UL-2434-16, 110-volt, 60-cycle. For 2-T8-15W Fluorescent tubes.

Numbers with Prefix "P" indicate High Power Factor.

No. UL-3434-R1 Incandescent, with R1 Circular Reflector.

The 34-inch Extension Fluorescent Lamp is so generally preferred in this model, that 24-inch extension is not listed.

See following page for specifications and price list.



Fluorescent Bracket Model

DESK MODEL

The weighted base does not require fastening down, permitting it to be placed anywhere on a flat-top desk, table or other horizontal surface; can be moved as desired. Auxiliary installed in the base.

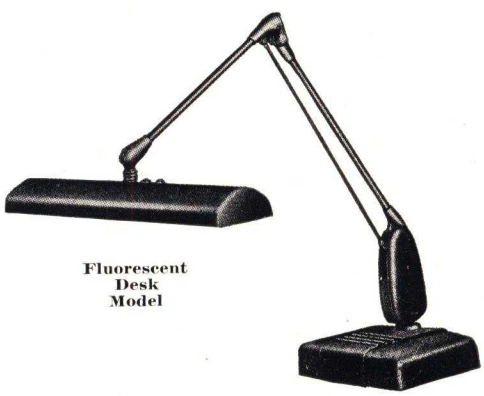
No. UL-1324-16, 110-volt, 60-cycle. For 1-T8-15W Fluorescent tube.

No. UL-2324-16, 110-volt, 60-cycle. For 2-T8-15W Fluorescent tubes.

Numbers with Prefix "P" indicate High Power Factor.

(The 24-inch arm extension Fluorescent Lamp is so generally preferred in this model, that 34-inch arm and Incandescent Models are not listed.)

See following page for specifications and price list.



Fluorescent Desk Model

Note: All models are also supplied with equipment for use on 110-volt 50-cycle, or 220-volt 50 or 60-cycle A.C., or 110 or 220-volt D.C., at slightly differing prices. Prices do not include tubes or bulbs.

DAZOR FLOATING LAMPS

For Fluorescent or Incandescent Lighting

Pedestal Model—A heavy iron base, 12 inches in diameter, gives stability to this portable floor-type Dazor. Pedestal measures 39 inches from floor to arm-hinge at top of pedestal. Especially adapted to offices, doctors' quarters and homes. Auxiliary installed in base of the Fluorescent models.

Fluorescent Models: For 110-volt, 60-cycle, A.C., are No. 1234-16 single tube; No. 2234-16 two-tube. Prefix "P" indicates High Power Factor. No. 3234-R1 Incandescent, with R1 reflector.

Business Machine Model—The bracket of this Dazor clamps to round or square leg of any business machine. Clamp is felt-lined to prevent marring and to insure firm grip.

Dazor Floating Magnifiers—Two seeing aids combined in a compact movable head: (1) **Magnification** which clearly reveals the tiniest work details and (2) supplementary fluorescent lighting concentrated at the point of work. Comes in the Universal and Pedestal models, in either brown or white baked enamel.

Universal model for clamping or screwing to any surface.
No. M-209B, 110V. 60C. for 3-T5-6w tubes.
Pedestal model—a portable floor unit.
No. M-210B, 110V. 60 C. for 3-T5-6w tubes.

B in model number designates brown finish. Substitute W for white.

Specially Designed Units—A 6-watt Floating Arm Universal model and a 6-watt Rigid Arm Universal model are available for use where there is a need for efficient lighting in close quarters.

If you have a lighting problem on a particular machine or an unusual lighting application we will be glad to have Dazor Engineers cooperate in meeting it.

Condensed Price List—Following prices are on lamps equipped for use on 110-125 volts, 60 cycles, A.C.

Lamp catalog numbers listed all specify 34-inch arm extensions, except the Desk Model, which is listed only in 24-inch extension. For 24-inch arm extension in Pedestal, Business Machine and Universal models, substitute "24" for "34" in catalog numbers. Bracket model is listed in 34-inch only. Prices are the same. In addition to models catalogued here, the following are available on special order: fixtures for one or more 4-, 6-, 8-, 14-, 15- and 20-watt fluorescent tubes and 30-, 40- and 60-watt lumiline tubes.



Fluorescent Pedestal Model



Fluorescent Business Machine Model



Fluorescent Universal Model Magnifier

Fluorescent Models

Model	Cat. No.	No. & Size of Tubes	Circuit Voltage	Power Factor	List Price
Universal	UL-1134-16	1-T8-15W	110V 60C	Low	$20.00
	UL-P-1134-16	1-T8-15W	110V 60C	High	23.25
	UL-2134-16	2-T8-15W	110V 60C	Low	23.50
	UL-P-2134-16	2-T8-15W	110V 60C	High	26.75
Bracket	UL-2434-16	2-T8-15W	110V 60C	Low	23.50
	UL-P-2434-16	2-T8-15W	110V 60C	High	26.75
Desk	UL-2324-16	2-T8-15W	110V 60C	Low	31.25
	UL-P-2324-16	2-T8-15W	110V 60C	High	34.50
Pedestal	UL-2234-16	2-T8-15W	110V 60C	Low	37.00
	UL-P-2234-16	2-T8-15W	110V 60C	High	40.25
Business Machine	UL-2634-16	2-T8-15W	110V 60C	Low	31.00
	UL-P-2634-16	2-T8-15W	110V 60C	High	34.25

All models also supplied for use on 110-volt 50-cycle, or 220-volt 50 or 60-cycle A.C., or 110- or 220-volt D.C., at slightly differing prices.

Incandescent Models

Universal	UL-3134-R1	40-60W	any	.....	14.25
Bracket	UL-3434-R1	40-60W	any	.....	14.25
Pedestal	UL-3234-R1	40-60W	any	.....	28.50

Magnifier

Universal	M-209B	3-T5-6W	110V 60C	Low	36.50
Pedestal	M-210B	3-T5-6W	110V 60C	Low	50.00

Models also supplied for use on 110V. 50C. and 110V. D.C. at slightly higher prices.

Prices do not include tubes or bulbs.

FOSTORIA LOCALITES

A Vital Tool for Speed and Accuracy

Practical lighting engineers know that localized lighting for "close-up" work is primary for seeing and that investment in such lighting engineered to the job is profitable.

The Fostoria Localite is designed to supply direct lighting of high levels on critical work areas. It is a very simple, but flexible piece of equipment.

Popular Localites

MODEL 3267-H-174



Recommended lighting on the relatively small critical work areas of machine tools such as lathes, grinders, drill presses, etc. Designed to accommodate one 100-watt A-21 incandescent lamp and to provide in excess of 175 foot-candles directly on the cutting tool. Overall length, bottom of base to extreme end of reflector, 32¾ inches.

Outside finish complete unit wrinkle grey; inside reflector high reflective marproof white. Completely wired with 8-foot oil resistant wire, 18/2 and rubber plug.

Price, Model **3267-H-174**.....each **$6.95**

MODEL 3470-P-172



Primarily for bench and table operations requiring in excess of 250 foot-candles of illumination directly on the critical work area. Designed to accommodate one 100 watt A-21 incandescent lamp. Overall length from bottom of base to extreme end of reflector 48⅝ inches.

Outside finish complete unit wrinkle grey, inside reflector is high reflective marproof white. Completely wired with 8-foot oil resistant wire, 18/2 and rubber plug.

Price, Model **3470-P-172**.....each **$8.15**

MODEL 09-HX-412

Listed by Underwriters' Laboratories Inc.



An excellent unit for machines such as lathes, grinders, drill and punch presses, etc., where fully enclosed wiring is desirable. A new design featuring new type flexible joints (2) with tension adjustable to suit the job and worker. Provides in excess of 175 foot-candles. Will accommodate up to and including incandescent lamp of 100-watt size A-21. All wiring fully enclosed. Reflector rotates 360°. Porcelain socket. Toggle switch in base. Base mounts on 4¼-inch round or octagonal outlet box, or on any flat surface. Overall length, 24½ inches, completely wired with 8-foot oil-resistant cord 18/2 beyond base and rubber plug. Vista green color, matte finish, Infra-red baked.

Price, Model **09-HX-412**.....each **$13.00**

MODEL 32-H-174



Recommended for same applications as No. 3267-H-174; also for home workshops. Identical to 3267-H174 except that overall length is only 23¼ inches from bottom of base to extreme end of reflector. Provides 175 foot-candles. Accommodates 100 watt A-21 incandescent lamp. All other specifications and finish same as 3267-H-174.

Listed by Underwriters' Laboratories, Inc.

Price, Model **32-H-174**.....each **$5.75**

MODEL 18-HX-400

Listed by Underwriters' Laboratories, Inc.



Uses same as Model 32-HP-174. Overall length, 26½ inches. Strong, flexible tubing arm. Reflector rotates 360 degrees. Porcelain socket. Will accommodate up to and including incandescent lamp of 100 watt size A-21. Toggle switch in base. Base mounts on 4¼-inch round or octagonal outlet box, or on any flat surface. All wiring fully enclosed. Completely wired with 6-foot oil-resistant cord 18/2 beyond base, and rubber plug. Vista green color, matte finish, Infra-red baked.

Price, Model **18-HX-400**.....each **$7.95**

MODEL 3267-C-172



Recommended for a number of large machine tools and similar equipment where lighting requirements do not exceed 175 foot-candles for the critical work area. Designed to accommodate one 100 watt A-21 incandescent lamp. Overall length from bottom of base to extreme end of reflector 35⅛ inches.

Outside finish, complete unit wrinkle grey; inside reflector is high reflective marproof white. Completely wired with 8-foot oil resistant wire 18/2 rubber plug.

Price, Model **3267-C-172**.....each **$7.85**

MODEL 3267-FLB-170



Recommended for assembly, inspection and similar operations on bench and tables where operation of fluorescent lighting in excess of 100 foot-candles is required for efficient vision. Designed to accommodate two 14-watt fluorescent lamps. Overall length 36¼ inches. May be clamped on table or bench. Outside reflector finish grey wrinkle, inside reflector high reflective marproof white. Completely wired with 8-foot oil resistant cord 18/2 and rubber plug.

Price, Model **3267-FLB-170**.....each **$16.40**

ADJUSTABLE LIGHTING FIXTURES

Adjustable Brackets Excel in Durability, Adjustability and Neatness in Appearance
More Adjustable Than the Human Arm and without the Use of Thumb Screws



With 3 Sets of Universal Joints for Adjustment

Cat. No.	Dimensions, Inches: Lgth. to Socket	Base Joint	Base Arm	End Arm	Socket End	Bare Bracket	Complete Bracket
262	24	3	9	9	3	$ 6.20	$ 9.40
263	36	3	15	15	3	6.60	9.80
264	48	3	21	21	3	7.00	10.20



With 4 Sets of Universal Joints for Adjustment

Cat. No.	Dimensions, Inches: Lgth. to Socket	Base Joint	Base Arm	Center Arm	End Arm	Socket End	Bare Bracket	Complete Bracket
266G	24	3	6	6	6	3	$ 7.40	$10.60
266H	30	3	9	9	6	3	7.60	10.80
266K	36	3	12	9	9	3	7.80	11.00
266L	42	3	12	12	12	3	8.00	11.20
266M	48	3	18	12	12	3	8.20	11.40



With Universal Joints at Base—Flexible End Arm

Cat. No.	Dimensions, Inches: Lgth. to Socket	Base Joint	Base Arm	Flexible Arm	Bare Bracket	Complete Bracket
272E	18	3	6	9	$ 5.00	$ 8.20
272G	24	3	9	12	5.20	8.40
272H	30	3	15	12	5.40	8.60
272K	36	3	18	15	5.60	8.80



With 3 Sets of Universal Joints for Adjustment; ½-inch I.P. Male Connection to Condulet

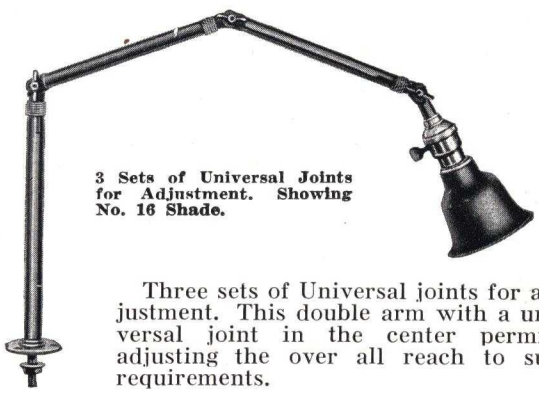
Cat. No.	Dimensions, Inches: Length Bracket	Base End	Base Arm	End Arm	Socket End	Bare Bracket	Complete Bracket
242E	18	3	6	6	3	$ 6.00	$9.20
242G	24	3	9	9	3	6.20	9.40
242H	30	3	12	12	3	6.40	9.60
242K	36	3	15	15	3	6.60	9.80



With Universal Joint at Base—Flexible End Arm; ½-inch I.P. Male Connection to Condulet

Cat. No.	Dimensions, Inches: Length Bracket	Base End	Base Arm	Flexible Arm	Bare Bracket	Complete Bracket
244E	18	3	6	9	$ 5.00	$ 8.20
244G	24	3	9	12	5.20	8.40
244H	30	3	12	15	5.40	8.60
244K	36	3	18	15	5.60	8.80

NO. 252 DOUBLE ARM BENCH BRACKET



Three sets of Universal joints for adjustment. This double arm with a universal joint in the center permits adjusting the over all reach to suit requirements.

Cat. No.	Dimensions, Inches: Length Bracket	Standard	Center Arm	End Arm	Socket End	Bare Bracket	Complete Bracket
252G	24	9	6	6	3	$ 5.60	$ 8.80
252H	30	12	9	6	3	5.80	9.00
252K	36	15	9	9	3	6.00	9.20
252L	42	15	12	12	3	6.20	9.40
252M	48	18	15	12	3	6.40	9.60

Base nipple illustrated is available at $0.40 list.

No. 250 ADJUSTABLE BRACKET FOR BENCH OR TABLE

The No. 250 bracket is the same as the No. 252 less center arm.

Cat. No.	Dimensions, Inches: Lgth. to Socket	Standard	End Arm	Socket End	Bare Bracket	Complete Bracket
250G	24	9	12	3	$ 4.40	$ 7.60
250H	30	12	15	3	4.60	7.80
250K	36	15	18	3	4.80	8.00

Complete fixtures include the following at $3.20 list over bare brackets:

No. 28 parabola shade or No. 16 bell shade	$1.00
Metal shell, or porcelain socket	1.40
Regular wiring with 16-inch lead of cord	.80
Portable wiring with 10 ft. cord and plug	1.40



FLEXIBLE ARM

Finish
Brown Lacquer

	9-in.	12-in.	15-in.	18-in.	24-in.
Type B-⅛ I.P.	$0.90	$1.00	$1.20	$1.40	$1.60
Type C-⅜ I.P.	1.10	1.20	1.40	1.60	1.80

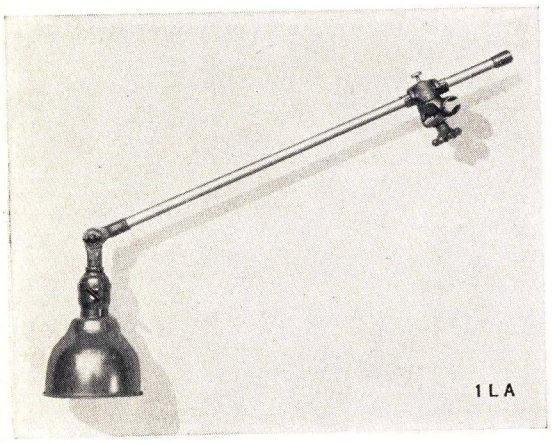
General instructions for this page:
Standard package, 12, can be assorted styles.
Standard finish. Black, unless otherwise stated.
Machine gray finish supplied when specified.

WHITE ADJUSTABLE FIXTURES FOR USE ON CONDUIT

FOR STITCHING OR ASSEMBLING TABLES IN FACTORIES AND MILLS

Specially developed to meet the requirements in clothing, shoe, and similar industries.

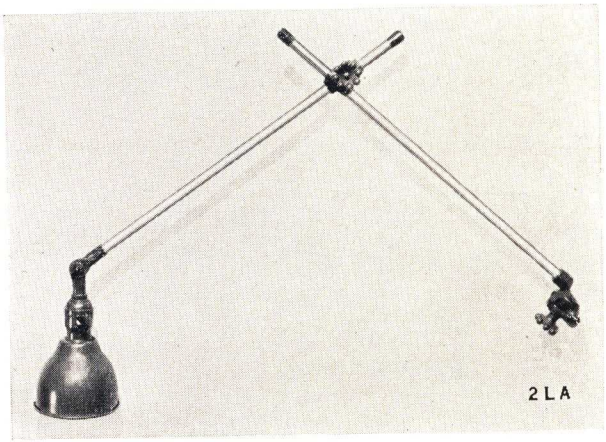
STYLE 1LA



This type of fixture is highly recommended for use over stitching machinery. It is composed of a universal joint for direct attachment to either vertical or horizontal conduit, size ¼, ⅜, ½ or ¾-inch pipe. Can be furnished with any length of lamp arm from 6 inches to 4 feet inclusive and has a wrist joint at lamp.

Price, Style **1LA**, (18-inch arm).....each **$3.45**

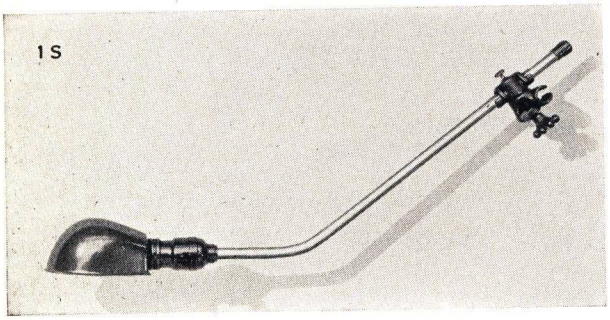
STYLE 2LA



A double arm type giving maximum range and clearance. Universal joint for direct attachment to either vertical or horizontal conduit, also universal mid-joint and wrist-joint at lamp. Extreme extension 36 inches. Can be furnished for ⅜, ½ or ¾-inch pipe.

Price, Style **2LA**.....each **$5.25**

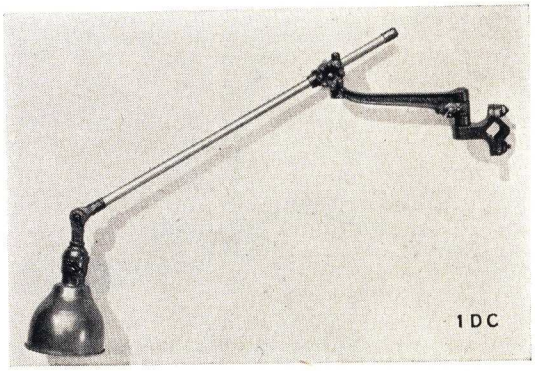
STYLE 1S



Curved arm type. Universal joint for attachment to horizontal conduit, size ¼, ⅜, ½ or ¾-inch pipe. Has no wrist-joint at lamp. Can be furnished with any length of arm from 15 inches to 2½ feet inclusive. Takes ¼-inch socket.

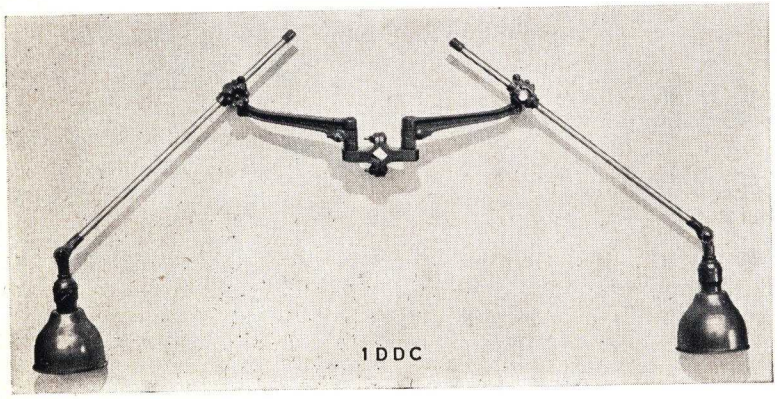
Price, Style **1S**, (18-inch arm).....each **$2.70**

STYLE 1DC



Clamps to ½ or ¾-inch conduit (regularly horizontal, but can be furnished for vertical). Swing crank arm, universal mid-joint, lamp arm 18 inches long with wrist-joint at lamp. Extreme extension, 25 inches.

Price, Style **1DC**.....each **$6.80**



STYLE 1DDC (TWO LIGHT)

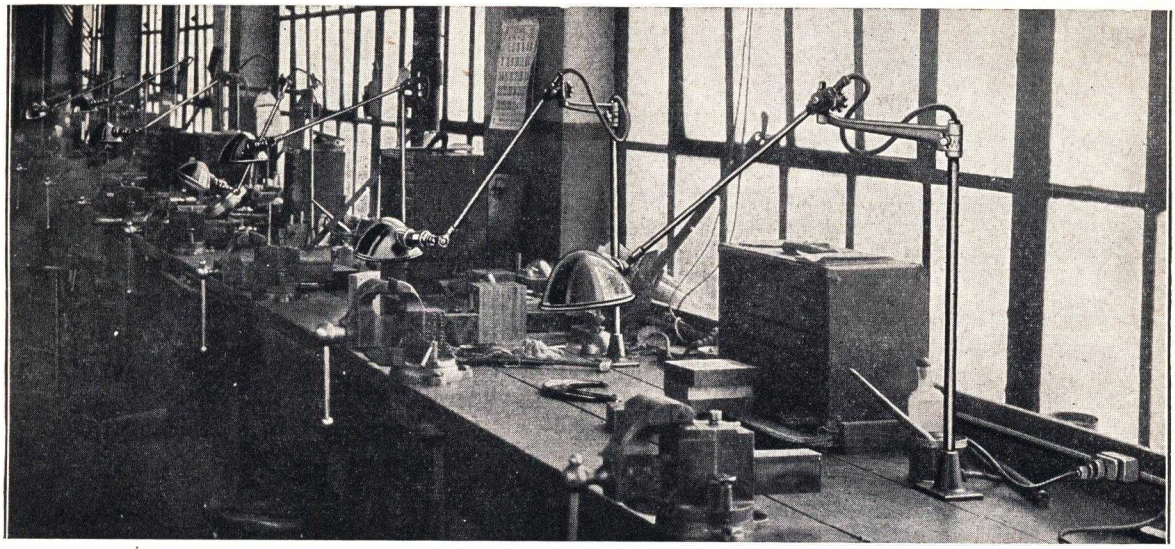
Clamps to ½-inch or ¾-inch conduit (regularly horizontal, but can be furnished for vertical). Same construction as style 1DC but for double light.

Prices do not include shades, sockets, wire or attachment plugs. All industrial fixtures are finely finished in machine-tool builder's grey enamel lacquer and rust-resisting cadmium-plated lamp arm tubes to insure proper grounding.

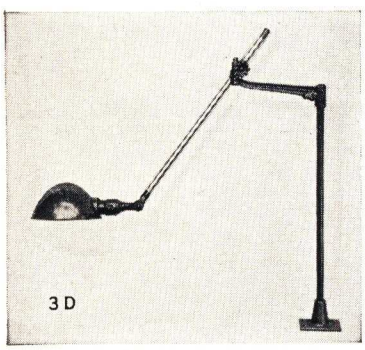
Approved by the National Board of Fire Underwriters.

WHITE ADJUSTABLE FIXTURES FOR BENCH WORK

Adaptable to a great variety of practical requirements and giving universal adjustment, holding the lamp securely at any desired position within the range without attention to the adjustments.



STYLE 3D



Base 3⅞ x 2⅝ inches with rigid upright, swing crank arm 8 in., lamp arm 18 in., universal mid-joint and wrist-joint at lamp, height 24 in., extreme extension 26 in. Wired through lamp arm and upright, where no possible injury can come to wire.

Price, Style **3D**.....each **$6.50**

STYLE 4D

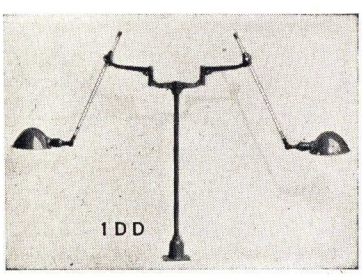
Same as Style No. 3D but with clamp on base for thickness from ¾-inch to 4-inch.

Price, Style **4D**.....each **$9.10**

STYLE 1DD

Two light fixture, universally adjustable; 18-inch lamp arm; 7-inch swing crank arms; 8½-inch yoke; 32-inch upright. Wired through lamp arms, yoke and upright.

Price **$15.10**

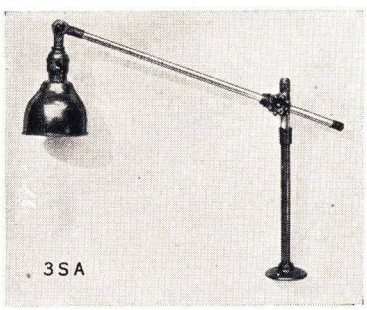


STYLE 1DDS

Same as style 1DD but with slip canopy base for conduit system under bench.

Price, Style **1DDS**.....each **$15.25**

STYLE 3SA



For attachment to work bench or table. Adaptable to a great variety of practical requirements. Universally adjustable with sliding joint for varying the length of lamp to requirements of the work at hand.

For attachment to the top of bench. Universal joint. Wrist-joint at lamp. Lamp arm, 18 inches. Various sizes made up on order at special prices.

Price, Style **3SA**.....each **$5.90**

STYLE 23D

A two-arm fixture of remarkable adjustability. Universal base joint; universal and sliding mid-joint; wrist-joint at lamp; rigid upright for flat attachment. Extreme extension, 36 in.; height, 24 in. Wired thru both arms and upright.

No. 24D same but with clamp-on base.



Price, Style **23D**.....each **$ 8.10**

Price, Style **24D**.....each **10.75**

Prices do not include shades, sockets, wire or attachment plugs. All industrial fixtures are finely finished in machine-tool builders' gray enamel lacquer with rust-resisting cadmium-plated lamp arm tubes to insure proper grounding. Approved by National Board of Fire Underwriters.

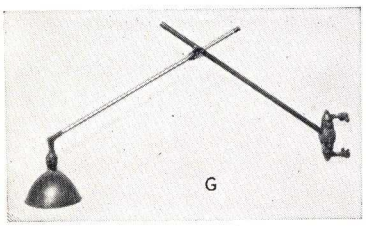
WHITE ADJUSTABLE FIXTURES

WALL BRACKET TYPES

Adapted to lighting of working spaces on either floor or bench adjacent to walls or post.

Prices do not include shades, sockets, wire or attachment plugs. All industrial fixtures are finely finished in machine-tool builders' gray enamel lacquer, with rust-resisting cadmium-plated lamp arm tubes to insure proper grounding. Approved by National Board of Fire Underwriters.

STYLE G

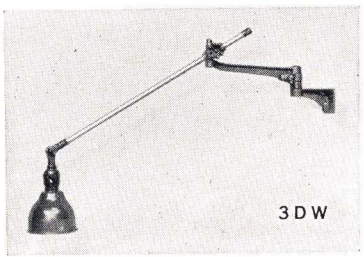


Swiveling, disk type of base-joint permitting side swing thru 180 degrees and up - and - down movement of 60 degrees; universal mid-joint; wrist - joint at lamp. Wired thru both arms. Supplied in 12 sizes.

Price Style G (Size 3 x 3-ft.).....each **$8.45**

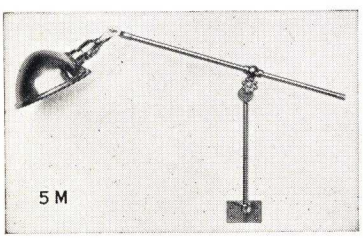
STYLE 3DW

Eight - inch swing crank arm; universal mid-joint; 18 - inch lamp arm; wrist-joint at lamp. An adaptation of Style 3D bench fixture.



Price, Style **3DW**.....each **$6.60**

STYLE 5M



Straight arm sliding through universal joint; 18 in. long; reach of lamp 26 in.; height 11 in.

Attached to side of desk with wood screws.

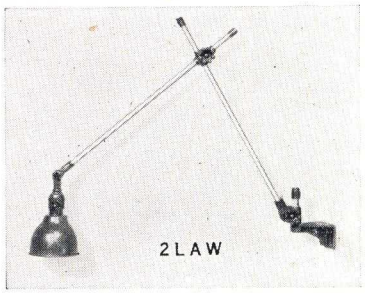
Clears 1¼ in. - overhang.

Price, Style **5M**.....each **$7.55**

WHITE ADJUSTABLE FIXTURES

APPLIED ILLUMINATION FOR THE OFFICE

STYLE 2LAW



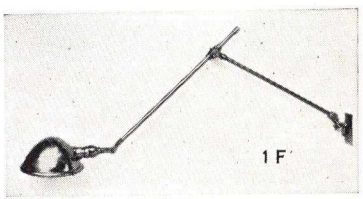
Two 18 - inch lamp arms with 2 universal cone joints; wrist-joint at lamp. An adaptation of style 23D fixture.

Price, Style **2LAW**.....each **$6.50**

STYLE 1F

Very high grade—all brass with joints of manganese bronze.

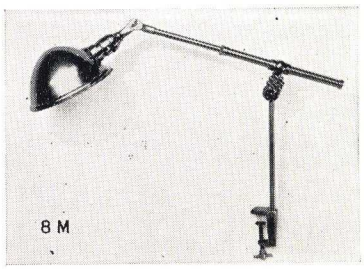
Regularly furnished with base as shown (1¾ in. by 3¾ in.) for attachment by wood screws.



Two arm; 36-in. extreme extension; universally adjustable. Can be folded flat against the wall.

Price, Style **1F**.....each **$12.70**

STYLE 8M

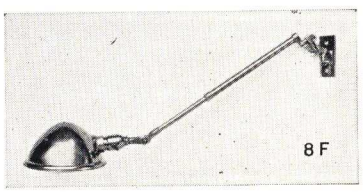


Telescopic arm. Sliding through universal joint; 21-in. extension; reach of lamp 29 in.; height 11 in.

Readily attached (or detached) to thickness up to 2⅛ in. by means of clamp on base. This fixture is very useful in any office. Price, Style **8M**....each **$10.95**

STYLE 8F

Telescoping arm; 15 to 24-in. extension; universally adjustable. A most popular fixture, particularly in doctors' offices.



Price, Style **8F**.....each **$11.15**

All office fixtures regularly in brass or statuary bronze. Special finishes on request.

D-I-P-Co HEAVY DUTY PORTABLE INDUSTRIAL LIGHTS



Model 5-PL-24

Directs the light where you want it and keeps it there. Permits quick, positive adjustments to any position or angle — no slipping.

Specifications: Model 5-PL-24—Shade, Cast Aluminum. Accommodates 100 and 150 watt lamp. Approved 25 ft. cord and switch and keyless socket. **Height of Standard**—50 inches. **Reach of Standard**—46-inch radius. **Standard**—Cast Iron Tripod Base, hard composition wheels, non-conductive caster, vertical pipe in two 24 inch sections, with tapered plug for joining. Shipping weight, 35 lbs.

Price, Model **5-PL-24** Portable Light.....each **$24.90**

Specifications: Model 5-PLW-25—Weather-proof Reflector—11 inches in diameter, accommodates up to 200-watt bulb, finished in gray enamel. Fully encased glass lens. Rubber gasket and retaining Ring. Approved 2 Conductor Cord—25 ft. in length, rubber insulated, complete with switch. **Standard**—Cast Iron Tripod Base, hard composition wheels, non-conductive caster, vertical pipe in two 24-inch sections, with tapered plug for joining. Shipping weight, 34 lbs.

Price, **Model 5-PLW-25** Portable Light.....each **$23.95**

Horizontal arm has automatic spring tension, movable up or down the vertical pipe. More convenient to use—no hooks—no clamps.



Model 5-PLW-25

HEAVY DUTY LONG SPHERICAL RADIUS LIGHTS

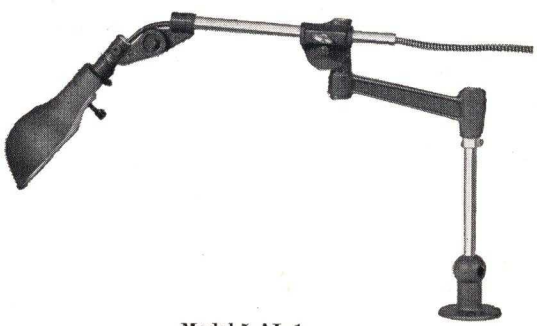
MACHINE LIGHT

Designed for a job which requires a longer spherical radius, these lights are instantly adjusted without special motions. Automatic tension keeps steady position without displacement by any type of vibration. Sturdy construction means long economical usage. These lights are adjustable in all directions.

All lights are painted a Gray stipple finish, conforming with the modern trend of making factory equipment light in color.

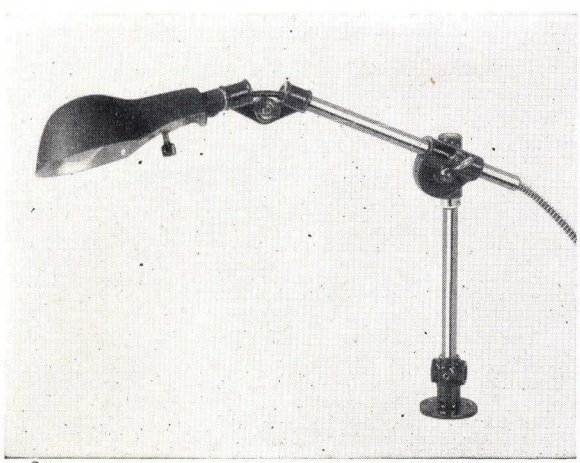
Oil resistant composition key socket available, **$0.75** additional.

Cat. No.	Lamp Size	Length Overall Inches	Shpg. Wt. Lbs.	Price Each
5 AL-1	60 Watts	30	5¾	**$8.65**
5 AL-2	60 an 100 Watts	30	6	**9.05**



Model 5-AL-1

GENERAL PURPOSE MACHINE LIGHTS



Model AL-9—Model 5-AL-10

Made to fit many uses for general purpose machine lights, all models can be instantly adjusted to any part of their spherical radius. No special adjustments are necessary.

Machine vibration has no effect on stability. Single unit reflectors protect both light and socket. These lights were made for utility work with construction designed to withstand years of hard usage. Greater flexibility plus attractive gray stipple finish make these models stand out.

Cat. No.	Lamp Size	Length Overall Inches	Shpg. Wt. Lbs.	Price Each
5 AL-9	60 Watt	23	5	**$7.70**
5 AL-10	60 and 100 Watt	23	5¼	**8.10**

Standard conduit tubing used in the assembly of these lights may be replaced by user with any desired length of tubing for special installations. This requires only a few minutes time and provides a lighting unit which can be tailored to fit any job.

KLIEGL FOOTLIGHTS

DISAPPEARING TYPES

When not in use are closed down flush with stage floor. Furnished in standard 5 ft. lengths. Completely assembled. Wired for 3 colors. Automatic mercury "on" and "off" circuit switches. Solid kiln-dried oak flooring. Malleable iron cross brackets, positive latches. Terminal blocks for feeder connections.


No 829

Open trough style with continuous reflector, sprayed white. For use with colored lamps.

No. 829—Single row receptacles, continuous flooring, 5 ft. sections, 15 outlets, 60/100 watts....**$65.00**

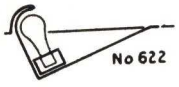

No. 832

Individual reflector styles, with individual Alzak aluminum reflectors and glass color-roundels; for use with clear or inside-frosted lamps.

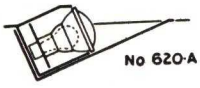
No. 832—Single row individual reflectors, hinged mounting continuous flooring, 5 ft. section, 12 outlets, 100 watts.....**$80.00**

PERMANENT TYPES

Fixed in position. Hood extends minimum above stage floor. Any length or curvature required. Wired as specified, for 3 or more colors. Receptacles spaced as indicated.


No 622

No. 622 — Single row receptacles, open trough continuous reflector sprayed white, 60/100 watt outlets, spaced 4" on centers.....Price **$6.00** per ft.*


No 620-A

No. 620A — Single row receptacles, individual Alzak aluminum reflectors, glass color roundels, 100 watt outlets, spaced 6" on centers. Price **$13.50** per ft.*

*For straight lengths. Curved lengths **$1.50** per ft. additional.

KLIEGL LIGHT STRIPS

STAGE TYPES


No. 650

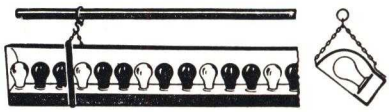
Used at entrances, back of transparencies, behind ground rows, and for general service. Portable trough reflector with series of screw-base receptacles for 40/150 watt lamps, wired on one 2-wire circuit, terminating in suitable splice box.

Cat. No.	Description	Length Feet	Price Each
649	2-light strip	1½	**$ 8.50**
650	4-light strip	3	**15.00**
651	6-light strip	5	**18.00**
652	10-light strip	8	**22.00**

KLIEGL BORDERLIGHTS

Any continuous length, or in sections. Wired as specified, for 3 or more colors. Complete with splice box, scenery guards, and chain hangers.

OPEN TROUGH TYPE


No 600

No. 600—For colored lamps. Continuous reflector sprayed white, 60/100 watt outlets, spaced 4" on centers.....Price: **$6.00** per foot.

INDIVIDUAL REFLECTOR TYPE


No 610

For clear or inside frosted lamps. Alzak aluminum individual reflectors. Heat-resisting glass color roundels, hinged-ring roundel holders. Porcelain screw-base receptacles.

No. 610—100 or 150 watt outlets (as specified) 6" on centers.....Price: **$13.00** per foot.

KLIEGL POCKETS AND PLUGS

STAGE-FLOOR TYPE POCKETS


No. 354

Set in floor flush with surface. Have hinged self-closing cover notched for passage of cable. Fitted with heavy-duty plug outlets. Furnished complete with 2-wire plugs. Listed by Underwriters.

Cat. No.	Description	Price Each
351	1 2-wire outlet, 50 amp. per outlet....	**$17.00**
352	2 2-wire outlets, (1-25 and 1-50 amp.)	**24.00**
353	3 2-wire outlets, 25 amp. per outlet....	**35.00**
354	4 2-wire outlets, 25 amp. per outlet....	**46.00**

KLIEGL DOWNLIGHTS

OVER-CEILING FIXTURES

Concealed types. Project light beam through small hole in ceiling. Provide high-intensity direct illumination. Various designs for both general and defined-area lighting.

FIXED BEAM TYPES

For general lighting. Give soft edge beam. Use standard service lamps.

Furnished with ellipsoidal reflector and fixed-focus lens system. Relamped from above or below ceiling.


No. 2503

Cat. No.	Description	Price Each
2501	150 watt, medium screw base.....	**$38.00**
2503	200/300 watt, medium screw base....	**48.00**
2504	300/500 watt, mogul screw base.....	**66.00**
2505	750/1000 watt, medium Bipost.....	**82.50**

KLIEGL DOWNLIGHTS

ADJUSTABLE BEAM TYPES

For defined lighting and general illumination, for straight down or approximately 45 - degree angular projection. Sharp or soft-edge cut-off. Shape and size of beam can be regulated. Equipped with focusable lens system, adjustable framing shutters, and reflector. Use concentrated filament type lamps.

Pin-Hole Spot Units

Relamped from below. Furnished with plaster ring, removable aperture plate, spherical reflector. Listed by Underwriters.


No 2145

Cat. No.	Rating Watts	Projection	Price Each
2145	100	Straight Down	$36.00
2146	100	Angular	38.00

High Ceiling Units

Relamped from above. Finished with plaster cone, and ellipsoidal reflector.


No. 2164

Straight Down Projection

Cat. No.	Description	Price Each
2164	250/500 watt	$40.00
2166	1000 watt	68.00
2168	1500/2000 watt	83.00


No. 2165

Angular Projection

Cat. No.	Description	Price Each
2165	250/500 watt	$46.00
2167	1000 watt	72.00
2169	1500/2000 watt	88.00

KLIEGL RECESSED CEILING FIXTURES

FRESNEL-LENS UNITS

Flush inbuilt type. Provide high intensity direct illumination. Accommodate standard screw base general-service incandescent filament lamps. Furnished complete with back box, mounting arrangements, wired porcelain receptacle, Alzak aluminum reflector, Fresnel lens with painted risers, and hinged front frame.

CIRCULAR LENS TYPES

Fitted with circular Fresnel lens of listed diameter. Circular front frame. Cylindrical back box. Plaster ring.


No 22 F 12

Cat. No.	Lens Diam. Inches	Lamps Watts	Price Each
22 F 06	6	100	$18.00
22 F 08	8	150	22.00
22 F 12	12	200/300	30.00
22 F 14	14	300/500	40.00
22 F 16	16	500/750	50.00

SQUARE LENS TYPES

Fitted with square shaped Fresnel lens of indicated size. Square hinged front frame. Rectilinear back box.


No 24 F 12

Cat. No.	Lens Diam. Inches	Lamps Watts	Price Each
24 F 06	6	100	$22.00
24 F 08	8	150	26.00
24 F 12	12	200/300	30.00

KLIEGL "KLIEGLIGHTS"

High intensity light beam projectors with ellipsoidal reflectors, lens system, and coordinated shutter arrangement which permits direct regulation of size and shape of beam in every conceivable manner, so as to confine the light within any desired area. Accommodate standard bipost base up burning concentrated filament lamps.

MOUNTED TYPES

For permanent installation. Supplied with square shutters, short leads, wall bracket, pipe clamp or table base. (Can be supplied on floor-stands at additional cost).


No 1163

Drop-In Shutter Arrangement

Cat. No.	Watts	Lens Diam. Inches	Price Each
1163-B	250/500	5	$31.00

Built-In Square Shutter Arrangement

Cat. No.	Watts	Lens Diam. Inches	Price Each
1165-B	250/500	6	$53.00
1366-B	1000/2000	6	99.00
1368-B	1000/2000	8	110.00

For Iris Shutters, add **$15.00** to above prices.

PORTABLE TYPES


No 1168 CR

Mobile units. Mounted on telescopic floor stands with rubber tired casters, and additionally equipped with built-in iris shutter, as well as framing shutter. Controls conveniently located and arranged for quick and easy manipulation, such as required for service intended. Equipped with 25 ft. cable and switch.

Cat. No.	Watts	Lens Diam. Inches	Price Each
1166-CR	1000/2000	6	$185.00
1168-CR	1000/2000	8	195.00

KLIEGL FLOODLIGHTS

STAGE UNITS

Used from side wings or from overhead on the stage. Provided with slide grooves on front for color frames with gelatine mediums. For P.S. lamps.



STANDING TYPES

No. 1N—Open-box reflector sprayed white, grooves for color frame; 500/1500 watt; pedestal floor stand, 25 ft. cable..... **$36.00**

No. 2N—Parabolic boxed Alzak aluminum reflector; grooves for color frame; 500/1500 watt; pedestal floor stand, 25 ft. cable..... **$42.00**

HANGING TYPES

No. 540 — Open-box reflector sprayed white; 500 watt; asbestos leads; chain hangers; grooves for color frame **$17.00**

No. 546 — Parabolic boxed Alzak aluminum reflector; 500 watt; asbestos leads; grooves for color frames; pipe clamp hanger..... **$26.00**

KLIEGL SPOTLIGHTS

FRESNEL LENS TYPES

Equipped with refracting prismatic Fresnel type lens—producing a soft-edge high intensity light beam. Accommodate standard concentrated filament incandescent lamps. Adjustable lamp carriage for focusing. Alzak aluminum reflectors. Slide grooves for color frames.


No 43N3


No. 43N6


No. 44N16

Cat. No.	Watts	Lens Dia., Inches	Price Each
43N3-E	100	3	$11.00
43N6-E	500	6	20.00
44N8D	1000	8	80.00
44N12D	2000	12	125.00
44N16D	5000	16	170.00

Nos. 43N3 and 43N6 normally supplied with extension cord, attachment plug and wall bracket, but may be had with suspension mounting, or table base at same price; or No. 43N6 on floor stand 25 ft. cord and switch at **$10.00** additional cost.

Nos. 44N8D-44N16D are supplied mounted on telescopic floor stand with rubber tired casters; furnished with 25 ft. cable and switch.

PLANO CONVEX LENS TYPES

Standard general utility spotlights with the usual clear-glass condensing lens, designed for use with concentrated filament lamps. Sliding lamp carriage adjustable for focusing. Any type of mounting desired—pipe clamp, wall bracket, table base, or telescopic floor stand.


No 53


No 6N 14


No 70

No. 53E — 250/400 watt, 4½" lens, short range (15-ft.), medium-screw-base repectacle, pipe clamp*. Price, ...**$15.00**

No. 5310E — 250/400 watt, 4½" lens, medium range (25-ft.), medium-screw-base receptacle, pipe clamp*. Price,.....**$18.00**

No. 70-E—1000 w., 6" lens, average range (50 ft.), mogul prefocus receptacle, Alzak aluminum reflector, pipe clamp*. Price, **$39.50**

No. 6N14—2000 watt, 6" lens, average range (50 ft.), mogul prefocus receptacle, Alzak aluminum reflector, floor stand. Price, ...**$63.00**

No. 8N20—20000 watt, 8" lens, long range (100 ft.), mogul prefocus receptacle, Alzak aluminum reflector, floor stand. Price, ...**$85.00**

*Wall bracket or table base same price. Floor stands at slight additional cost. Floor stand models furnished with 25 ft. cable, otherwise short leads supplied.

KLIEGL PICTURE LIGHTS


No 276 AA

PROJECTOR TYPES

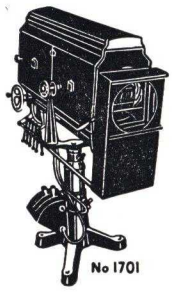
Fitted with objective lens system and adjustable framing shutters, permitting confinement of light within picture area.

Cat. No.	Lamp Watts		Type of Lamp	Price Each
276	75 or 100	G16½	Bayonet Base	$24.00
276AA	100	P25	Med. Screw Base	30.00
	250 or 400	G30	Med. Screw Base	

KLIEGL SPOTLIGHTS

ARC-LAMP BOOTH TYPES

All-duty high powered long-range arc spotlights fully equipped with boomerang for rapid color changes. Built-in adjustable iris and curtain shutters for framing light beam.


No 1701

No. 1695—100 ampere hand feed arc spotlight. Working range 100 to 150 ft.; 8" condensing lens. Five color frames in color box on front. Mounted on tubular-steel side-bracket on heavy cast iron base. Complete with asbestos covered leads and line switch.
Price, ...each **$850.00**

No. 1701—140 ampere automatic and hand feed arc spotlight. Working range 100/200 ft.; 10" condensing lens. 6 removable color frames in boomerang on front of spot, keyed color levers on side. Inbuilt iris and curtain shutters. Movable arc carriage with focusing control hand wheel and position indicator. Motor driven mechanism for automatic arc regulation inter-connected with hand controls. Balanced and supported in yoke on massive base. Complete with leads and booster switch.
Price, ...each **$1400.00**

Note: Resistance for connection in series with all duty arc spots not included in prices listed. When ordered, they are supplied as separate units, without cable, for mounting at some out-of-the-way location.

KLIEGL COLOR WHEELS


No 22


No 31

Hand Operated

Cat. No.	Lens Diam. Inches	No. of Colors	Lens Size* Inches	Price Each
14	13½	5	4½	$3.50
22	18	5	5 or 6	6.00
24	20	7	5 or 6	8.60
23	24	5	8	13.00

Motor Operated†

14AC	15⅜	6	4½	19.00
31AC	20	6	5 or 6	36.00
35AC	24	5	8	40.00

*For Spotlights.
†A-C. motors. Also can be furnished with D-C. motors—prices on application.

STANDARD COLOR GELATINES

Conventional Gelatine, 20"x24" sheets.
Price, ... per sheet **$0.16**

Heat & moisture-proof Gelatine, 20"x22" sheets.
Price, ... per sheet **$0.40**

KLIEGL DIMMERS


No 1237

Cat. No.	Watts	Size Inches	Price Each
1229	150	8	$21.00
1230	250	8	21.00
1231	400	8	21.00
1233	550	8	21.00
1234	650	8	21.00
1235	750	13	33.00
1236	1000	13	33.00
1237	1350	13	33.00
1238	1650	15½	45.00
1239	2000	15½	45.00
1240	2450	18	49.00
1240B	2700	18	49.00
1240C	3000	18	55.00

STEBER UTILITES

Listed by Underwriters' Laboratories, Inc.

PERMANENT PAR-38 AND R-40 LAMPHOLDER



A substantial cast aluminum holder for outdoor or indoor service that can be used with utmost safety in any type of installation. The holder has been carefully designed by use of cast aluminum fins to radiate the heat generated by projector or reflector lamps. A flexible Neoprene gasket is fitted permanently into the mouth of holder, making a tight water-proof connection using the PAR-38 lamp.

Horizontal adjustment of 360 degrees and verticle adjustment of 180 degrees is provided, and the holder is held in fixed position by the use of a hand-operated set screw.

Rubber bumpers on the base prevent scratching of surface where unit may be placed for display use. These can be removed to mount unit permanently with wood or machine screws. Screw spacing is suitable for mounting on 4-inch outlet box.

Unit is furnished with 6 ft, plastic cord set, suitable and approved for outdoor and indoor use.

Standard package, 5; package weight, 9 lbs.

Price, No. **1** Utilite Lampholder..... each **$3.50**
Lamp not included.

LENS AND LOUVER HOLDERS

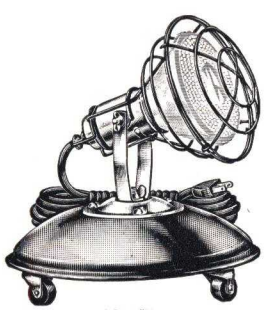
Lens and louver holders that mount directly on the above Utilite, entirely concealing the lamp and eliminating spill light, are now available. Full information and prices upon request.

HANDY MOBILE UTILITE

Portable Service Light for PAR-38 Lamp

Consists of No. 2 Utilite mounted on 10½-inch circular vibration-proof base with casters. A handy rolling light for garages and service stations.

Finished in Graytone Ultranamel. Complete with sturdy wire lamp guard and 20-ft. service cord and plug. Lamp not included.



No. 75

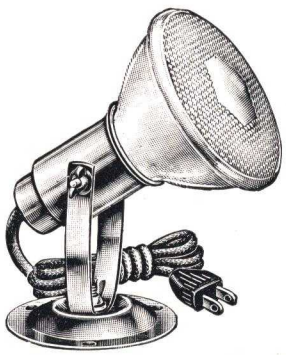
Cat. No.	Std. Pkg.	Wt. Lbs., Std. Pkg.	Price Each
75	3	16	**$6.00**

STEBER UTILITES

Listed by Underwriters' Laboratories, Inc.

PAR-38 AND R-40 LAMPHOLDERS

Utilites are adjustable holders for PAR-38 Projector Flood or Spot Lamps, R-40 Reflector Flood or Spot Lamps, R40/4, R40/9 and R40/10 Infrared and Heat Drying Lamps. Varied decorative lighting and color combination effects may be obtained by use of Steber color lenses and louvers.



No. 2 Utilite—A weatherproof outdoor holder for use with PAR-38 lamps, equipped with flat round gasket to permit watertight fit between lamp and holder. Made of drawn steel with weatherproof finish, and special means of dissipating heat at socket terminals. Universal adjustment. Mounted on 4¼-inch base plate punched for wall bracket or outlet box mounting. Equipped with 6-ft. approved cord and plug.

No. 2-S Utilite—Same as No. 2 Utilite except that 6-inch ground spike for ground mounting is furnished instead of round base plate.

Cat. No.	Description	Wt. Lbs. Std. Pkg.	Price Each
2	With 4¼-in. round base plate.....	5	**$2.00**
2-S	With 6-in. spike for ground mounting	5	**2.00**
2-M	With clamp for mounting on ½-in. pipe or fixture stem.....	5	**2.00**

Standard package, 5. Lamp not included.

No. 3 Utilite—For indoor service with R-40 lamps used for displays or window lighting, or with Infra-red and Heat Drying lamps.

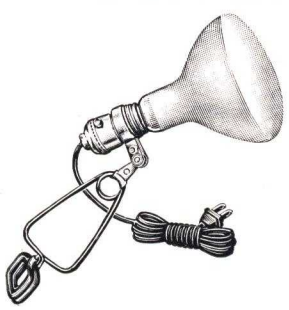


Base is of cast iron, aluminum finish, equipped with 6 ft. of approved cord and plug.

Lamp not included.

Standard package, 5.

Cat. No.	Description	Wt. Lbs. Std. Pkg.	Price Each
3	With case base.....	6	**$2.00**
3-M	With clamp for mounting on ½-in. pipe or fixture stem.....	5	**2.00**

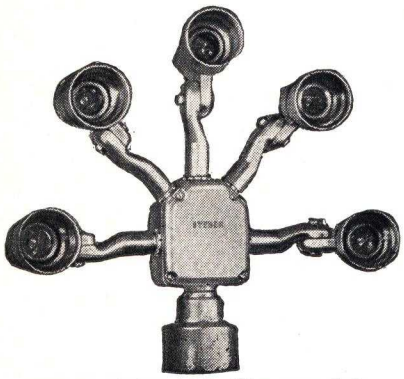


No. 14 Utilite—For use with R-40 reflector or other medium base lamps. Nickel plated push button socket, rubber covered spring clamp with universal ball and socket joint for easy hand mounting and adjustment. Plated finish. Complete with 6 ft. approved cord and plug.

Cat. No.	Description	Watts	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
14	Utilite.....	25-300	5	3½	**$2.00**

STEBERLITE BASIC UNITS AND ACCESSORIES

LAMP NOT INCLUDED



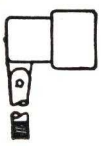
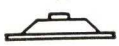
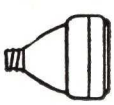
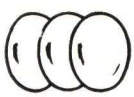
Cluster of five Steberlites mounted to Adapter Box and Steber pole Slip Fitter.

Listed below is a short line of versatile fittings in which the three basic units alone can handle nearly all problems of general or supplementary floodlighting. The smartly designed accessories add many more variations for complete floodlighting needs.

The Steberlite features: Long life; Enclosed wiring; Weatherproof construction; Compact size; Quick and easy hook-up; Minimum heat generation.



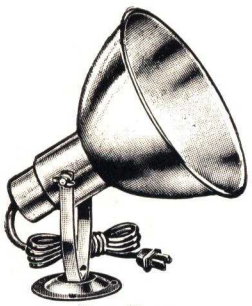
Steberlite Basic Unit No. S300

	Cat. No.	Description	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price
	**S300**	Lamp Holder, cast aluminum, completely wired. Mounting nipple threaded ½ inch with lock nut. Special silicone gasket gives complete weather protection with either PAR-38 or R-40 lamps	12	13½	**$3.65**
	**S301**	Adapter Box with cover, cast aluminum. Tapped ½ inch to mount up to five S300 units. Furnished with 3 threaded plug closures. Adapter Box tapped ½ inch female to mount on ½-inch conduit or Pole Fitter No. S302	6	10	**3.90**
	**S302**	Pole Slip Fitter, cast iron—fits either 1½ or 2-inch pipe. Tapped ½ inch to accommodate S300 unit. All Pole Slip Fitters furnished with ½-inch running thread to take S301	6	7½	**2.25**
	**S303**	4-inch Outlet Box Cover, cast iron. Top opening tapped ½ inch for S300 or ½-inch Conduit extension	12	7	**.58**
	**C24**	Wall Flange, cast iron—for direct mounting of S300 or ½-inch conduit extension. Tapped at bottom for ½-inch conduit or any ½-inch fitting for either open or enclosed wiring. Bracket body encloses splice	12	3½	**.90**
	**C8**	½-inch Slip Flange to anchor conduit where connection to outlet box on inside wall is desired	12	2	**.45**
	**S304**	Housing with ring, spun aluminum. Threaded neck attaches to S300. Easy detachable ring holds Color Lens (U-45) and/or Baffle-Louver (S305)	6	4	**4.00**
	**S305**	Baffle-Louver, drawn steel. Black Ultranamel finish. High efficiency—adequate shielding. Fits S304 Housing	6	3½	**1.00**
	**U45**	Color lens, heat resisting—available in four colors. Use suffix A, R, G, B to denote Amber, Red, Green or Blue. Fits S304 Housing	6	2	**.70**

STEBER SMALL FLOODLIGHTS

Listed by Underwriters' Laboratories, Inc.

Ruggedly constructed. Fully adjustable double strap bracket and 4¼-inch round base with screw holes for mounting on flat surface or 4-inch outlet box. Complete with 6-ft. approved cord set. Available in heavy gauge steel. No. 57 and No. 59 floodlights are finished outside in Graytone Ultranamel, Lumicote inside. No. 57P and No. 59P finished Oxford Gray Porcelain Enamel with interior finish Glossy White of high reflectivity.



Open Type



Enclosed Type

OPEN TYPE

Cat. No.	Watts	Diam. Inches	Finish	Std. Pkg.	Pkg. Wt. Lbs.	Price Each
57	100	7½	Lumicote	3	7	**$3.50**
57P	100	7½	Porcelain	3	8	**4.25**
59	200–300	10½	Lumicote	3	9	**4.00**
59P	200–300	10½	Porcelain	3	12	**5.00**

ENCLOSED TYPE

Completely weatherproof. Equipped with clear lens, channel rubber gasket and ring, with hand operated clamp.

Cat. No.	Watts	Diam. Inches	Finish	Std. Pkg.	Pkg. Wt. Lbs.	Price Each
572	100	7½	Ultranamel	3	11	**$5.75**
572P	100	7½	Porcelain	3	12½	**6.50**
592	200–300	10½	Ultranamel	3	16	**6.50**
592P	200–300	10½	Porcelain	3	18	**7.50**

ALUMINUM UNITS—ENCLOSED TYPE

These floodlights are made of spun aluminum, with highly polished reflecting surface and clear convex lens. No. 500 equipped with 6-ft. approved cord set. No. 800 has easy detachable service head with insulating bushing, medium base and annealed heavy duty lens.



No. 500



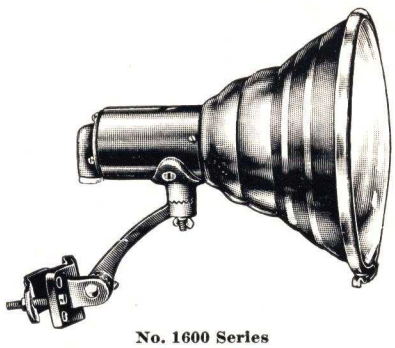
No. 800

Cat. No.	Watts	Diam. Inches	Std. Pkg.	Pkg. Wt. Lbs.	Price Each
500	100	8½	3	10	**$6.00**
800	200–300	10⅜	3	17	**8.00**

STEBER ENCLOSED FLOODLIGHTS

1600 AND 3600 SERIES FOR GREATER LIGHTING EFFICIENCY

Lumicote Ultranamel Finish



No. 1600 Series

Available in medium, broad and narrow beam. In these units, spill light is reduced to a minimum, the utilization factor has been substantially increased and nearly ideal distribution curves have been obtained.

Medium Beam units are highly efficient general purpose floodlights which combine both "punch" and good light distribution.

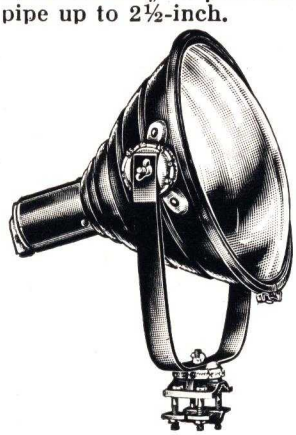
Broad Beam units have maximum light utilization with practically no spill light.

Narrow Beam units are applicable where more concentrated intensity is required at greater distances.

Reflectors, spun aluminum, polished interior surface combined with proper type lens to provide medium, broad, or narrow beam light pattern.

Lenses, high-grade, heat-resisting glass lenses in clear or stippled type.

Triple Purpose Mounting Bracket is ruggedly made of cast aluminum, adjustable at all angles, locks securely in position: for wall, cross-arm, or pipe up to 2½-inch.



No. 3600 Series

The advanced new high - efficiency No. 3600 Series post-war model floodlights are designed to embody all of the improvements gained during experience in supplying numerous requirements of defense plants and all branches of the armed services during the past war period.

Radially serrated type side and base flanges permit universal adjustment either vertically or horizontally in 5° steps. Clearly marked on aluminum castings. Tightning wing nut locks in fixed position. Rigid steel mounting bracket. Carton quantity, 1.

300–500 Watts — No. 1600 Series

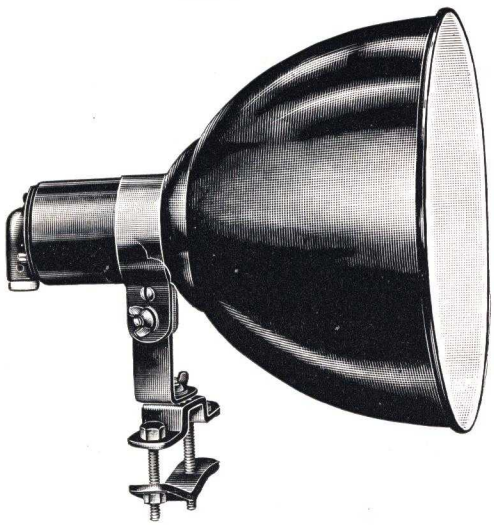
Cat. No.	Diam. Inches	Beam	Lens	Shpg. Wt. Lbs.	Price Each
1600	12	Medium	Clear	10	**$16.00**
1601	12	Broad	Stippled	10	**16.00**
1602	12	Narrow	Clear	10	**16.00**

750–1000–1500 Watts — No. 3600 Series

3600	18	Medium	Clear	26	**36.00**
3601	18	Broad	Stippled	26	**36.00**
3602	18	Narrow	Clear	26	**36.00**

STEBER OPEN TYPE OUTDOOR FLOODLIGHTS

FOR GENERAL PURPOSE LIGHTING OF LARGE AREAS



Spun aluminum reflectors in Lumicote Ultranamel finish. This series features the new service type head with insulating bushings. By removing the bushing, ½-inch BX, Romex or similar type connectors can be used. Entire socket service head is quickly detached for easy wiring by removing three cap nuts.

Triple Purpose Mounting Bracket

Substantial adjustable strap iron bracket, for mounting on wall, cross-arm, or pipe sizes up to 2½ inches. Weatherproofed finish. Easy to attach — easy to adjust to any angle. Carton quantity, 3.

Cat. No.	Watts	Reflector Dia. In.	Shpg. Wt. Lbs.	Price Each
3000A	300– 500	15	25	**$10.00**
3050A	750–1000	17½	30	**13.50**

STEBER WEATHERPROOF YARDLIGHTS

ECONOMY TYPE



Constructed of ½-inch thinwall conduit, ends swaged and threaded to ⅜-inch pipe size, heavy drawn steel flange for wall or 4-inch outlet box mounting, steel reflector in Graytone Ultranamel finish, complete with socket, wire and 1½-inch screws.

Cat. No.	Diam. Inches	Watts	Carton	Pkg. Wt.	Price Each
BR-10	10	60	10	23	**$2.35**
BR-12	12	100	10	28	**2.50**
BR-14	14	150	10	32	**2.75**

STEBER FARM LIGHTING

THE STURDILITE

Cast Aluminum Reflector—UL Listed

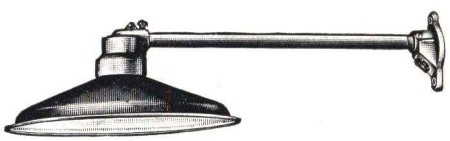


Reflector and neck cast in one piece. Will withstand any wind or weather. 15-inch rigid pipe. Porcelain socket, completely wired with No. 18 standard wire. Four point mounting wall flange is cast and has ½-inch 2-pole insulating bushings. Lag and wood screws furnished. Back plate completes weatherproof splice enclosure. Individually packed. Graytone Ultranamel outside — white inside.

Cat. No.	Diameter Inches	Lamp Watts	Carton	Price Each
HA-14	14	150	3	**$5.75**

COMPLETE YARDLIGHT UNITS

Detachable Reflector Type

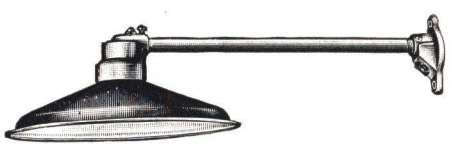


Steel reflector bolts to socket head to afford rigid mounting. Keyhole slots in reflector allow quick and easy removal. Arm is ½-inch rigid pipe. Two point mounting cast wall flange has lower hole tapped ½-inch for wiring with conduit, BX or non-metallic sheathed cable. Wired with No. 18 stranded wire. Insulating bushing furnished for open wiring. Reflector finished in Graytone Ultranamel; white inside. Individually packed.

Cat. No.	Diameter Inches	Lamp Watts	Carton	Price Each
RSU-12	12	100	3	**$4.35**
RSU-14	14	150	3	**4.65**

COMPLETE YARDLIGHT UNITS

Porcelain Enamel Reflectors



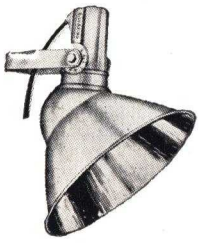
Interchangeable shadeholder type reflector. Reflector of high grade porcelain enamel, Oxford gray finish. Underwriters approved; meets REA specifications. 15-inch rigid pipe arm. Cast hood and wall flange. Flange is provided with bakelite 2-hole insulation bushing for open wiring. Completely wired with No. 18 stranded wire. Individually packed.

Cat. No.	Diameter Inches	Lamp Watts	Carton	Price Each
VP-12	12	100	3	**$4.70**
VP-14	14	150	3	**5.00**

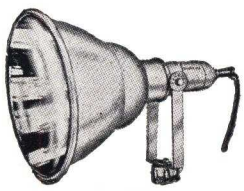
SILV-A-KING OUTDOOR WEATHERPROOF FLOODLIGHTS

ALUMINUM FLOODLIGHTS
(Open and Enclosed)

"Sport Area" "Beam-Jector"



No. 8754



No. 7855

Sport Area—Open Type
750-1500 Watt P.S. Lamps

Mounting	Etched Alzak Cat. No.	Etched Alzak Price Each	Polished Alzak Cat. No.	Polished Alzak Price Each
Cross-Arm	8750	$33.00	8754	$39.00
Standard Base	8751	34.00	8755	40.00
Pipe Clamp	8752	35.00	8756	41.00
Slip-Fitter	8753	35.00	8757	41.00

Sport Area—Enclosed Type
750-1500 Watt P.S. Lamps

Cross-Arm	8760	59.00	8764	65.00
Standard Base	8761	60.00	8765	66.00
Pipe Clamp	8762	61.00	8766	67.00
Slip-Fitter	8763	61.00	8767	67.00

Beam-Jector—Open Type
300-500 Watts P.S. Lamps

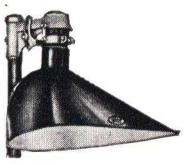
Cross-Arm	7400	33.00	7404	38.00
Standard Base	7401	34.00	7405	39.00
Pipe Clamp	7402	35.00	7406	40.00
Slip-Fitter	7403	35.00	7407	40.00

Beam-Jector—Enclosed Type
750-1500 Watts P.S. Lamps

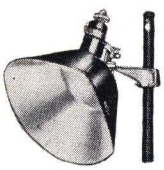
Cross-Arm	7850	44.00	7854	53.00
Standard Base	7851	45.00	7855	54.00
Pipe Clamp	7852	46.00	7856	55.00
Slip-Fitter	7853	46.00	7857	55.00

PORCELAIN ENAMELED FLOODLIGHTS
(Open Type Only)

"Super-Service" "Uni-Flood"



No. 6750
(Enclosed Wiring Bracket)



No. 3750
(Open Wiring Bracket)

Lamp Size, Watts	Diam. In.	With Open Wiring Bracket Cat. No.	With Open Wiring Bracket Price Each	Concealed Wiring Bracket Cat. No.	Concealed Wiring Bracket Price Each
300- 500	15 x16	3300	$17.50	4300	$19.50
750-1500	16 x18	3750	23.00	4700	25.00
300- 500	18¾x20	5300	25.00	6300	27.00
750-1500	24¾x24	6300	27.00	6750	38.00

Alzak or oxidized aluminum Inner Beam Projectors available for above Units. Prices on request.

SILV-A-KING OUTDOOR WEATHERPROOF FLOODLIGHTS

UTILITY FLOODLIGHTS



No. 1500

Enclosed Type

Cat. No.	Diam. In.	Price Each
	Lamp Watts—150-200	
1500	10x12¼	$12.00
	Lamp Watts—300-500	
2500	12x15⅞	20.00

Polished aluminum finish inside, natural aluminum outside; colored lenses (red, green, amber, blue) available. Prices on request.

OPEN TYPE FLOODLIGHT
(Not illustrated)

Housing—Seamless, one piece, heavy gauge aluminum.

Mounting Bracket—Same as on No. 1500.

Cat. No.	Lamp Size	Diam. In.	Hght. In.	Std. Pkg.	Wt. Lbs. Std.Pkg.	List Price
1810	150-200 W	10	10½	1	7	$6.50
1814	300-500 W	14	13	1	9	10.00

YARD LIGHT REFLECTOR
"Unit Package"



Cat. No.	Lamp Watts	Reflec. Diam. In.	Overall Lgth. In.	Unit Pkg.	Wt. Lbs.	List Price
103	60-100	12	24	1	7	$4.45
105	150-200	14	25	1	7	4.85

R.E.A. Approved.

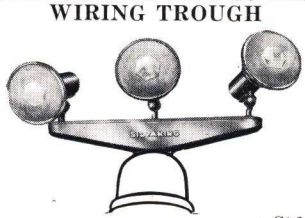
ISLAND LIGHT



Porcelain enameled reflector, white inside, red, green, cream or blue outside. Green is standard unless otherwise specified. Floodlighting equipment can be mounted to top of light. Examples: L1 and T1.

Cat. No.	Lamps Watts	Reflector Diam., In.	Shpg. Wt. Lbs.	List Price
39500	300-500	20	18	$22.00

LAMP HOLDERS FOR PAR 38 LAMPS AND WIRING TROUGH

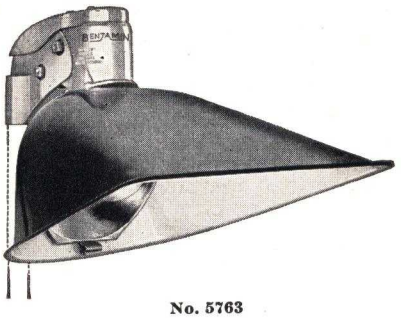


Cat. No.	Description	Std. Pkg.	Wt. Lbs.	List Price
L1	Lamp Holder Only (Wired)	24	24	$3.75
T1	Wiring Trough Only	12	18	5.50

Individually Packed.

BENJAMIN IMPROVED "DUO-SERVICE" FLOODLIGHT

A COMBINATION FLOODLIGHTING PROJECTOR AND DIFFUSING REFLECTOR



No. 5763

For lighting gasoline service stations, etc. Combines a wide coverage porcelain enameled steel diffusing reflector with an adjustable beam producing projector or inner reflector. It provides uniform illumination of a surrounding ground area with the simultaneous high intensity floodlighting of a flat vertical surface or building in or beyond the area of general illumination.

Reflectors are green outside, special diffusing surface white inside. When specified on order, choice of red or white outside supplied at same price.

Reflector is 25 inches long and 23¼ inches from the front to back.

Receptacle is porcelain base, skeleton type, with new finger-type lamp grip.

"Saflox" Lowering Attachment—Allows unit to be lowered for easy maintenance without danger.

Inner Reflectors

Concentrating Beam — A highly polished Alzak aluminum inner projector producing a narrow, concentrated, high intensity beam for use at a distance or for small areas.

Medium Spread Beam — A processed, oxidized aluminum inner reflector producing a medium spread beam for large objects at medium range.

Wide Spread Beam — A processed, oxidized aluminum inner reflector for larger objects or very short range.

With Concentrating Beam Inner Projector

For 750–1500-Watt Lamps

Cat. No.	Description	List Price
5763	Fits 1½" I.P. Mast	$48.75
5763A	Fits 2" I.P. Mast	48.75
27563	With "Saflox" Attach. (1½" pipe)	67.75
27563A	With "Saflox" Attach. (2" pipe)	67.75

With Medium Spread Beam Inner Reflector

For 750–1500-Watt Lamps

5764	Fits 1½" I.P. Mast	44.70
5764A	Fits 2" I.P. Mast	44.70
27564	With "Saflox" Attach. (1½" pipe)	63.70
27564A	With "Saflox" Attach. (2" pipe)	63.70

With Wide Spread Beam Inner Reflector

For 750–1500-Watt Lamps

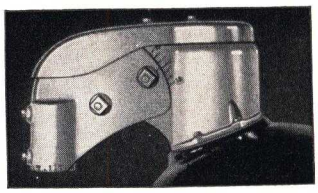
5766	Fits 1½" I.P. Mast	46.70
5766A	Fits 2" I.P. Mast	46.70
27566	With "Saflox" Attach. (1½" pipe)	65.70
27566A	With "Saflox" Attach. (2" pipe)	65.70

For Floodlight for 750 and 1000 watt Bi-Post Lamps prefix regular number with BP and add to list price as follows: for regular floodlights, $2.70; for "Saflox" $3.40.

Schedule 7 Discounts Apply.

BENJAMIN IMPROVED "DUO-SERVICE" FLOODLIGHT

MOUNTING BRACKETS



Closed Wiring, Slip-Fitter Type

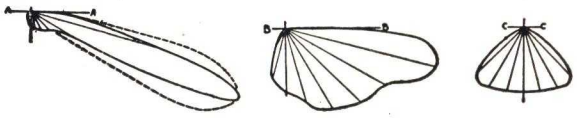
The unique Slip-Fitter hood and bracket construction of the Benjamin Improved "Duo-Service" Floodlight reduces wiring time and assures a watertight job. The improved one-piece cover casting acts both as a socket cap and wire cover. This makes the hood and wire entrance positively weatherproof and watertight and also reduces the number of parts to be handled by the installer. All wires are completely enclosed and protected from the receptacle through to pole. Loosening two screws in the top of the one-piece bracket cover allows the fixture to be disassembled. The bracket cover comes off as a unit with the mogul base receptacle for easy wiring.

The bracket arm cover is grooved to accommodate the wire leads, has a convenient cord grip to relieve socket terminals of strain and support the vertical run of wire in the pipe mast. The bracket slips over the end of 1½-inch iron pipe mast; also available for 2-inch pipe.

CHARACTERISTIC DISTRIBUTION CURVES

Concentrated Beam

Curve A-A is reproduced at 1/5 the scale of Curves B-B and C-C.



Medium-Spread Beam

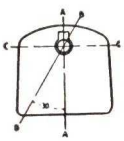
Curve A-A is reproduced at 1/3 the scale of Curves B-B and C-C.



Wide-Spread Beam

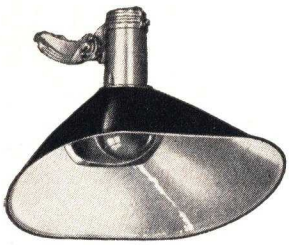
Curve A-A is reproduced at 1/3 the scale of Curves B-B and C-C.





Distribution curves are through perpendicular planes marked A-A, B-B and C-C, as shown in top view drawing to left. Dotted line curves are at 90-degrees to plane A-A and at angle of maximum candlepower.

BENJAMIN "PLAY-AREA" FLOODLIGHTS



No. 5751

These Benjamin open-type, diffusing floodlights have large, highly efficient, elliptical-shaped reflectors of porcelain enameled steel and inner reflectors of processed aluminum.

These floodlights are of extremely durable construction for reliable service out-of-doors and are recommended for the lighting of sport areas and for docks, storage yards, loading platforms, railroad yards and other outside areas where work is carried on at night. They are also ideal for protective lighting of industrial plants, power plants and other areas.

The "Play-Area" provides strong illumination to the front and sides of the unit and minimizes glare by shielding the lamp.

Reflectors are 28½ inches by 17½ inches across opening; finished green outside, white inside. Fittings not aluminum are suitably finished to resist corrosion. The inner auxiliary processed aluminum reflector is positioned behind the lamp.

Supplied with mounting brackets listed below. Cross arm type for attaching to wood cross arms; cross arm type with pipe clamp for clamping around to 1 to 2-inch pipe; slip fitter bracket type for fitting over 1½ or 2-inch pipe.

Receptacle is mogul base, skeleton-type, with new finger-type lamp grip.

With Inner Reflector

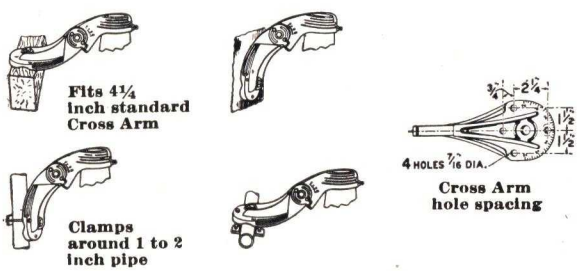
For 750-1500-Watt Lamps

Cat. No.	Description	List Price
5751	With Cross Arm Bracket	$39.30
5754	With Cross Arm and Pipe Clamp	40.65
5752	With 1½-inch Slip Fitter Bracket	42.00
5752-A	With 2- inch Slip Fitter Bracket	42.00
*25752	With Saflox attachment for 1½" I.P.	61.00
*25752-A	With Saflox attachment for 2" I.P.	61.00

Floodlights can be supplied less inner reflector at a **$3.00** reduction in list prices shown.

*Saflox lowering attachment makes it possible to lower floodlight quickly and easily, saving time and expense in servicing.

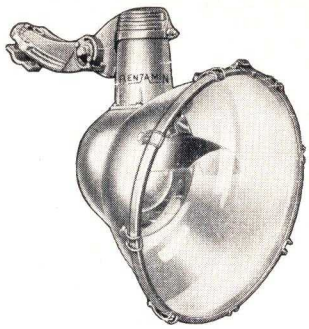
METHODS OF MOUNTING Nos. 5751, 5754



The above diagrams illustrate the methods of mounting cross arm brackets on flat surfaces or pipe. The unique design of the hood and bracket assembly of Benjamin "Play-Area" Floodlights reduces time in wiring and simplifies maintenance.

Schedule 7 Discounts Apply.

BENJAMIN "ALZO-LITE" LONG-RANGE ALZAK ALUMINUM FLOODLIGHT



A narrow-beam, open-type unit primarily designed for football field floodlighting from behind the stands when located 55 to 150 feet back of the side line.

These floodlights meet the requirements of football field lighting where it is desired to place floodlights behind grandstands or where it is necessary to locate poles 55 to 150 feet back of the side lines and where, under these conditions, uniform high-level illumination must be provided across the entire width of the field to the opposite side line.

These floodlights also have many other applications in such locations as railroad classification yards, strip mining, etc., where conditions may require the floodlights to be located at distances up to 275 feet from the area to be lighted.

Floodlights are available with an etched Alzak aluminum deflector which redirects a portion of waste light downward to provide illumination in the stands for reading programs, locating seats, etc.

Reflectors are of Alzak aluminum, with the section behind the lamp polished and the section in front of the lamp etched. The deflector is of etched Alzak aluminum positioned above and in front of the lamp filament.

Units are supplied with a choice of fittings as listed below. All fittings not aluminum are plated to resist corrosion.

For 750–1500 watt lamps. Overall dimensions with cover: Diameter, 18¼ inches; height, 23⅜ inches; depth, 12½ inches.

Units are available with a new water-proof, hinged, heat-resisting glass cover which eliminates any possibility of rain, moisture, mist or fog penetrating to the interior of the floodlight and causing lamp breakage by condensation on the hot surface of the bulb. Easily operated cover clamps simplify maintenance.

Floodlights with Cross Arm Bracket

Fit 4¼-inch Cross Arms and Flat Surfaces

Cat. No.	Description	List Price
N-6196	Less Deflector	$69.10
N-6191	With Deflector	71.80

Floodlights with Cross Arm Bracket and Pipe Clamp

Clamp Fits Around 1 to 2-inch Iron Pipe

N-6197	Less Deflector	70.45
N-6192	With Deflector	73.15

Floodlights with Slip Fitter Bracket

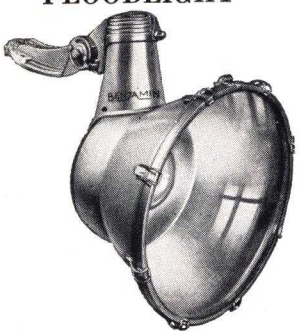
For 1½ or 2-inch Iron Pipe

N-6198	Less Deflector	71.80
N-6193	With Deflector	74.50
N-6198A	Less Deflector	71.80
N-6193A	With Deflector	74.50

Suffix A designates 2-inch pipe.

Schedule 7 Discounts Apply.

BENJAMIN "ALZO-LITE" WIDE SPREAD ALZAK ALUMINUM FLOODLIGHT



A durable, weatherproof, wide-spread-type floodlight with a reflector of Alzak aluminum. They are especially suitable for floodlighting of sport areas, yards, construction areas and other outdoor locations.

These floodlights have a symmetrical beam with a spread of approximately 90 degrees and are designed to direct accurately the maximum amount of light upon the specific area to be illuminated. Various styles of mounting brackets are available.

Units are available with a new water-proof, hinged, heat-resisting glass cover which eliminates any possibility of rain, moisture, mist or fog penetrating to the interior of the floodlight and causing lamp breakage by condensation on the hot surface of the bulb.

For 750–1500 watt lamps.

Floodlights with Cross Arm Bracket
Fit 4¼-inch Cross Arms and Flat Surfaces

With Glass Cover Cat. No.	Diam. In.	Overall Hght.	Less Glass Cover Depth In.	List Price
N-6146	18¼	23¼	12½	$59.60

Floodlights with Cross Arm Bracket and Pipe Clamp
Clamp Fits Around 1 to 2-inch Iron Pipe

N-6147	18¼	23¼	12½	60.95

Floodlights with Slip Fitter Bracket
For 1½-inch Iron Pipe Mast

N-6148	18¼	23¼	12½	62.30

For 2-inch Iron Pipe Mast

N-6148A	18¼	23¼	12½	62.30

For floodlight for 750 and 1000-watt Bi-Post lamps prefix regular number with "BP" and add **$2.70** to list price.

BENJAMIN FLOODLIGHTS
75-100 WATT JUNIOR TYPE



No. 5810

These inexpensive weatherproof floodlighting units have porcelain enameled steel reflectors which provide broad lighting coverage at relatively short range. Pedestal base units can be attached to a flat surface or mounted in the turf using a removable spike furnished. They include 5 feet, 7 inches of rubber-covered cord and a plug cap. Pipe bracket units are tapped ½-inch iron pipe size and have 15-inch pigtail for lead-in bracket.

FINISH—Bases are cast iron, finished in aluminum paint over electro-plating. Reflectors are porcelain enameled steel; green outside, white inside.

Cover Glass	Pedestal Base Cat. No.	Pedestal Base List Price	Pipe Bracket Cat. No.	Pipe Bracket List Price
Plain Clear	5810	$8.80	5910	$8.80

Schedule 7 Discounts Apply.

BENJAMIN FLOODLIGHTS
150-200 WATT UTILITY TYPE



No. 6011



No. 6015

This line of efficient, 150-200 watt weatherproof floodlighting units has a wide application. They are supplied with either concentrating type polished Alzak aluminum reflectors or spread type etched aluminum oxide reflectors; choice of several styles of heat-resisting cover glasses.

Floodlights are provided with a special beam focusing mechanism which is controlled by a single thumb screw located on the barrel of the housing. All floodlights can be tilted up or down or turned in a circle by loosening two wing nuts.

Pedestal base units can be attached to a flat surface or mounted on the turf using a removable spike furnished. They include 5 feet, 7 inches of rubber-covered cord and a plug cap. Pipe bracket units are tapped ½-inch iron pipe size and have 15-inch pigtail for lead-in to bracket.

FINISH — Aluminum housing and cover band are finished in sprayed aluminum. Bases are cast iron, finished in sprayed aluminum over electro-plating. Steel spike is furnished in sprayed aluminum over electro-plating.

With Concentrating Type Alzak Aluminum Reflector

Bracket Style	Refl. Only Dia. In.	Plain Clear Cover Cat. No.	Plain Clear Cover List Price	Stippled Clear Cover Cat. No.	Stippled Clear Cover List Price	Shpg. Wt. Lbs. Each
Base and Spike	10⅞	6007	$19.60	6011	$19.60	9½
Pipe Bracket	10⅞	6014	19.60	6016	19.60	9

***With Spread Type Etched Aluminum Oxide Reflector**

Base and Spike	10⅞	6010	$16.90	6012	$16.90	10
Pipe Bracket	10⅞	6015	16.90	6017	16.90	9½

Parts for 150-200 Watt Units

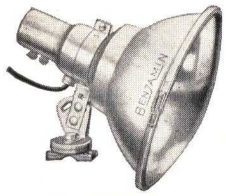
Description	Cat. No.	List Price
Plain Clear Cover	6090	$4.75
Stippled Clear Cover	5802-CL	4.75
Ribbed Clear Cover	6092	4.75

ALL UNITS available with ribbed covers at regular price. To order, prefix number of plain cover unit with R.

Schedule 7 Discounts Apply.

BENJAMIN FLOODLIGHTS

300-500 AND 750-1000 WATT UTILITY TYPE



No. S-6023B

These Utility Floodlighting Projectors are sturdy, neat-appearing units of high lighting efficiency.

Both sizes of units are supplied in either concentrating or spread type distribution. The concentrating type units have a reflecting surface of highly polished Alzak aluminum; the reflecting surface of spread type units is etched Alzak aluminum. Floodlights of this series are provided with a special focusing arrangement for controlling the spread of the beam.

Floodlights are supplied with a choice of six mounting brackets. Type "B" Swivel and Stand, is for attachment to any flat surface; type "D" Pipe Clamp, attaches to 1 to 2 inch size pipe; type "E" is for wall attachment; type "H", Slip Fitter, is for mounting over the end of a 1½ inch iron pipe; type "K" Pipe Bracket, is for threading to ½ inch pipe; type "M", Cross Arm, is for attachment to standard 4¼ inch cross arms.

These floodlighting projectors have numerous floodlighting applications and incorporate many features usually found only in the most expensive equipment. The interior of the aluminum housing of the unit forms a highly efficient reflector, which is supplied in two styles.

300-500 Watt — Concentrating Type

Style of Bracket	With Plain Glass Cover Cat. No.	List Price	With Stippled Glass Cover Cat. No.	List Price
Swivel and Stand (Type B)	P6023B	$42.00	S6023B	$42.00
Pipe Clamp (Type D)	P6023D	42.00	S6023D	42.00
Wall Bracket (Type E)	P6023E	43.35	S6023E	43.35
1½" Slip Fitter (Type H)	P6023H	43.35	S6023H	43.35
½" Pipe Bracket (Type K)	P6023K	43.35	S6023K	43.35
Cross Arm (Type M)	P6023M	40.65	S6023M	40.65

Diameter of Reflector Only, 14⅛ inches.

300-500 Watt — Spread Type

Swivel and Stand (Type B)	P6022B	$35.20	S6022B	$35.20
Pipe Clamp (Type D)	P6022D	35.20	S6022D	35.20
Wall Bracket (Type E)	P6022E	36.55	S6022E	36.55
1½" Slip Fitter (Type H)	P6022H	36.55	S6022H	36.55
½" Pipe Bracket (Type K)	P6022K	36.55	S6022K	36.55
Cross Arm (Type M)	P6022M	33.85	S6022M	33.85

Diameter of Reflector Only, 14⅛ inches.

750-1000 Watt — Concentrating Type

Swivel and Stand (Type B)	P6033B	$54.15	S6033B	$54.15
Pipe Clamp (Type D)	P6033D	54.15	S6033D	54.15
Wall Bracket (Type E)	P6033E	55.50	S6033E	55.50
1½" Slip Fitter (Type H)	P6033H	55.50	S6033H	55.50
½" Pipe Bracket (Type K)	P6033K	55.00	S6033K	55.50
Cross Arm (Type M)	P6033M	52.80	S6033M	52.80

Diameter of Reflector Only, 16⅛ inches.

750-1000 Watt — Spread Type

Swivel and Stand (Type B)	P6032B	$46.05	S6023B	$46.05
Pipe Clamp (Type D)	P6032D	46.05	S6032D	46.05
Wall Bracket (Type E)	P6032E	47.40	S6032E	47.40
1½" Slip Fitter (Type H)	P6032H	47.40	S6032H	47.40
½" Pipe Bracket (Type K)	P6032K	47.40	S6032K	47.40
Cross Arm (Type M)	P6032M	44.70	S6032M	44.70

Diameter of Reflector Only, 16⅛ inches.

Color Plates — Available in the three standard colors listed below. These plates do not replace the cover glass and are simply supplementary glass discs inserted behind the regular cover.

Visors — an easily attachable etched aluminum visor, for controlling spill light is listed below.

Schedule 7 Discounts Apply.

BENJAMIN TYPE RD FLOODLIGHTING PROJECTORS


No. 5850

The Benjamin line of Floodlighting Projectors embodies the latest advancements in mechanical construction and illumination design and provides a greater adaptability in each model of projector to a wide range of floodlighting applications. These projectors offer a number of notable engineering achievements, outstanding among which are reflectors of high efficiency and exceptional light control, embodying maximum beam candlepower and wider range of beam-spreads from a single universal service reflector.

A one-piece seamless projector housing of heavy-gauge aluminum provides great strength with light weight and will not be affected by the weather. The reflector is silver-mirrored, crystal glass; copper-plated and protected by a special heat- and corrosion-proof finish applied after plating. Entire projector is sprayed aluminum.

The interior is sealed against the passage of dust, smoke and moisture, and the size and design of the housing permit maximum external radiation of heat and adequate circulation of air within the housing. Glass covers are of heat-resisting glass.

Projectors are completely adjustable — easily attached. Horizontal and vertical stops are supplied on all models. The beam-spread is controlled by a knob outside the housing.

Receptacles are porcelain base, skeleton-type. Cat. No. 2780, mogul base, on Models RD20, RD18 and RD14. Cat. No. 9405 one-piece porcelain, medium base, on Model RD11. Visors, louvers, supplied at additional cost.

Model RD11—With 11-inch Diameter Reflector

For 200 Watt General Service—250 Watt Floodlighting Lamps

Cat. No.	Style of Cover	Diam.	*Overall Height	Depth Front to Back	List Price
5825	Plain	13	17	15	$51.45
5826	Stippled	13	17	15	51.45
5827	Ribbed	13	17	15	51.45

Model RD14—With 14¼-inch Diameter Universal Service Reflector

For 300, 500-Watt General Service, 500-Watt Floodlighting Lamps

5850	Plain	16¼	21¾	17½	81.25
5851	Stippled	16¼	21¾	17½	81.25
5852	Ribbed	16¼	21¾	17½	81.25

Model RD18—With 18-inch Diameter Universal Service Reflector

For 750 to 1000-Watt General Service and 1000-Watt Floodlighting Lamps

5875	Plain	20¼	26½	21	115.00
5876	Stippled	20¼	26½	21	115.00
5877	Ribbed	20¼	26½	21	115.00

Model RD20—With 20-inch Diameter Universal Service Reflector

For 1500 Watt General Service and 1500 Watt Floodlighting Lamps

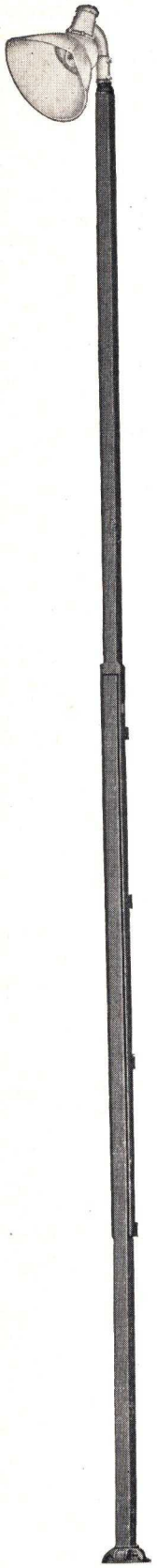
5892	Plain	22⅜	28⅝	22⅛	189.55
5893	Stippled	22⅜	28⅝	22⅛	189.55
5894	Ribbed	22⅜	28⅝	22⅛	189.55

*With lamp in horizontal position.

Alzak Aluminum—Reflectors supplied when specified, in place of silvered mirrored crystal glass, at same price. To order, suffix catalog number with "AL".

Schedule 7 Discounts Apply.

REVERE SQUARE HINGED FLOODLIGHT POLES



Nos.
199-G20
199-G24

To appreciate the lasting economy and merit of Revere Hinged Floodlight Poles requires only the realization that they permit the easy, safe, and inexpensive removal of dirt from the reflecting surfaces of high mounting floodlights.

The lower section of this Pole is 3 inches and the upper section is 2½ inches square seamless steel tubing. The counter-balance arm is made up of two ⅜-inch x 2½-inch, side bars bridged and proportioned to approximately balance the weight of the average floodlight.

All Revere Hinged Floodlight Poles are finished with a 2-inch short threaded top nipple. By applying the proper bracket or terminal to the top, the Pole can be adapted for any make of floodlight.

Base and Bolt Type

Four ¾ x 30-inch anchor bolts with nuts and lock washers are furnished with Base and Bolt Type without additional charge. The pole is finished at the bottom with an ornamental steel base securely welded to the shaft. In this type, a liberal size wire opening with a removable cover is provided 10 inches from base bottom.

Concrete Type

When furnished for concrete mounting the lower section of the Pole is imbedded three feet in the concrete foundation. This Pole is drilled and tapped 10 inches above foundation line for ¾-inch pipe.

Replacement Type

The Replacement Type Pole is designed for use on existing installations with very little expense. It is furnished with a sleeve at the bottom which will slip over either 3½-inch or 4-inch O.D. pipe. The old pole is cut off 20 inches above grade. The Replacement Pole is dropped down over the stub, and the set screws are tightened.

Due to the unique construction of the lower sleeve, it will wedge itself at the top with the old pole stub and perfect alignment is made by adjusting the set screws. It is not necessary to pre-determine the position of the pole in order to line up the wiring outlet of the old feed which served the rigid pole. Four ½-inch openings are provided, three of which are furnished with flush plugs permitting mounting the Pole in any position. It is recommended that the stub of the old pole be reinforced by filling same with concrete.

Base and Bolt Mounting Type

No.	Capacity	Mounting Height	Wt. Lbs. Each	List Price
199-G20	1 or 2 Floods	20′	157	**$49.28**
199-G24	1 or 2 Floods	24′	193	**52.80**

Concrete Mounting Type

No.	Capacity	Mounting Height	Wt. Lbs. Each	List Price
199-20	1 or 2 Floods	20′	174	**$42.79**
199-24	1 or 2 Floods	24′	196	**46.53**

Replacement Mounting Type

No.	Capacity	Mounting Height	Wt. Lbs. Each	List Price
199-R20	1 or 2 Floods	20′	159	**$46.79**
199-R24	1 or 2 Floods	24′	195	**50.64**

Floodlight Brackets

199-H	1½″ Terminal	1 Flood	3	**$2.90**
199-I	2″ Terminal	1 Flood	3	**2.95**
199-J	1½″ Terminals	2 Floods	11	**9.50**
199-K	2″ Terminals	2 Floods	15	**11.00**

Lowering Chain Listings

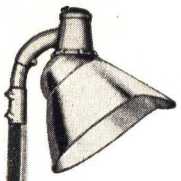
No. **199-CH20** For 20-Foot Pole.....**$1.76** No. **199-CH24** For 24-Foot Pole.....**$1.76**

Lowering chain is not included and is listed separately. Specify quantity and catalog number on order.

REVERE HEAVY-DUTY SQUARE TAPERED HINGED POLES

FOR FLOODLIGHTS AND SIGNS

This sturdy tapered Revere Pole was particularly developed to carry sign arms as well as floodlights, the weight of which would be beyond the capacity of the popular "non-tapered" Series of Revere Hinged Poles. Its graduated shaft is perfectly suited to hinged floodlight-pole design and its simple lines harmonize with modern "streamlined" service station architecture. The pole is constructed of 10 gauge steel. Available in 20 and 24-ft. mounting heights, as listed.



199-F-20
199-F-24
Patented

Size and Description

The poles for 20 and 24 ft. mounting, measure 4¾ in. square at grade. All Poles measure 2⅜ in. square at the top and are finished with a 2 in. threaded nipple to take the floodlight brackets for one or two floodlights as listed below.

Base and Bolt Mounting

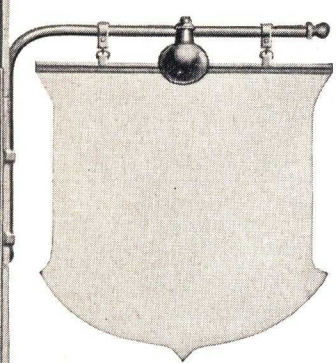
All Base and Bolt Mounting Poles are furnished with four ¾ x 30 in. bolts and nuts for installation. Wire opening with removable cover is provided in base.

Base and Bolt Type

Pole No.	Capacity	Pole Equipped With	Mntg. Hght. Feet	Approx. Wt. Lbs.	List Price
199-F20	1 or 2 Floods	1 Sign Arm	20	262	**$110.60**
199-F24	1 or 2 Floods	1 Sign Arm	24	292	**116.65**
199-N20	1 or 2 Floods	2 Sign Arms	20	305	**122.71**
199-N24	1 or 2 Floods	2 Sign Arms	24	335	**128.64**

Lowering Chain Listings

No. 199-CH-20	For 20 Ft. Poles	**$1.95**
No. 199-CH-24	For 24 Ft. Poles	**1.95**
No. 199-CH-30	For 30 Ft. Poles	**2.30**



Adjustable sign arms similar to those used on the No. 199 series floodlight Poles are furnished. The sign arm is made of 1½ in. extra strong pipe to accommodate the larger and heavier signs. Height of sign arms from grade on 20 ft. poles is 13 ft. 18 in. On poles of 24 ft. height the arms are 15 ft. from grade line.

FOR FLOODLIGHTS ONLY

The description of the 20 and 24 ft. mounting poles is the same as described above. The 30 ft. mounting poles have fabricated steel plate base which is welded in position. Four ⅞ x 36 in. bolts with nuts are furnished. A 4½ in. center hole is provided in this base for bringing in service conduit.

No.	Capacity	Mntg. Hght.	Wt. Lbs.	List Price
199-E20	1, 2 or 3 Floods	20′	217	**$87.50**
199-E24	1, 2 or 3 Floods	24′	248	**93.50**
199-D30	1, 2 or 3 Floods	30′	324	**118.50**

Lowering Chain Listings

No. 199-CH-20	For 20 Ft. Poles.....	**$1.95**
No. 199-CH-24	For 24 Ft. Poles.....	**1.95**
No. 199-CH-30	For 30 Ft. Poles.....	**2.30**

Floodlight Brackets

No.	Type	Capacity	Wt. Lbs.	Price
199-H	1½″ Terminal	1 Floodlight	3	**$2.90**
199-I	2″ Terminal	1 Floodlight	3	**2.95**
199-J	1½″ Terminals	2 Floodlights	11	**9.50**
199-K	2″ Terminals	2 Floodlights	15	**11.00**
199-L	1½″ Terminals	3 Floodlights	14	**10.80**
199-M	2″ Terminals	3 Floodlights	18	**11.20**



No. 199-E20
No. 199-E24
No. 199-D30
Patented

REVERE ROUND-TYPE HINGED FLOODLIGHT POLES



No. 300-L20

To provide a Hinged Floodlight Pole that would harmonize and match with equipment already installed, we offer this Round-type, which is a very well proportioned unit.

The 2 in. pipe at the extreme top of the pole is threaded for mounting any of the floodlight brackets listed below.

The Pole is available with single or double Sign Arms which are adjustable, thus permitting rotation to exact position. The steel castings to which these arms are attached are welded to the lower section. Height of Sign Arms from grade on 20 foot Poles is 13 ft. 8 in. On Poles of 24 foot height, the Arms are 15 feet from grade. On all Poles where Sign Arms are installed, the lower sections are heavily reinforced.

Be sure to order proper floodlight brackets for your pole as listed below. Poles with signs, include sign arms, sign reflectors, reflector arms and reflector arm fittings as listed.

The hinge castings are steel, securely welded to both sections. The bottom of the top section is so arranged that it is held securely in place when the floodlight is raised. Provision is made for use of a padlock. A set o four ¾ in. x 30 in anchor bolts with nuts is furnished with the Base and Bolt Mounting Type Pole

Base and Bolt Mounting Type

No.	Capacity	Pole Equipped With	Mounting Hght. Ft.	Approx. Wt.Lbs.	List Price
300-L20	1 or 2 Floods		20	157	**$66.00**
300-L24	1 or 2 Floods		24	182	**83.50**
300-AL20	1 or 2 Floods	1-Sign Arm Complete	20	225	**103.10**
300-AL24	1 or 2 Floods	1-Sign Arm Complete	24	261	**122.64**
300-BL20	1 or 2 Floods	2-Sign Arms Complete	20	258	**120.30**
300-BL24	1 or 2 Floods	2-Sign Arms Complete	24	294	**138.20**

Concrete Mounting Type

300-CL20	1 or 2 Floods		20	190	**64.00**
300-CL24	1 or 2 Floods		24	212	**81.50**
300-CAL20	1 or 2 Floods	1-Sign Arm Complete	20	286	**102.00**
300-CAL24	1 or 2 Floods	1-Sign Arm Complete	24	320	**122.70**
300-CBL20	1 or 2 Floods	2-Sign Arms Complete	20	319	**119.00**
300-CBL24	1 or 2 Floods	2-Sign Arms Complete	24	353	**138.60**

Concrete Sleeve Insert Mounting Type

300-CLX20	1 or 2 Floods		20	215	**76.00**
300-CLX24	1 or 2 Floods		24	237	**93.50**
300-CALX20	1 or 2 Floods	1-Sign Arm Complete	20	301	**114.00**
300-CALX24	1 or 2 Floods	1-Sign Arm Complete	24	335	**134.70**
300-CBLX20	1 or 2 Floods	2-Sign Arms Complete	20	334	**131.00**
300-CBLX24	1 or 2 Floods	2-Sign Arms Complete	24	368	**150.00**

Concrete sleeve included in above listing.

Replacement Mounting Type

300-RL20	1 or 2 Floods		20	162	**78.25**
300-RL24	1 or 2 Floods		24	187	**95.75**
300-RAL20	1 or 2 Floods, 1-Sign Arm	1-Sign Arm Complete	20	236	**115.35**
300-RAL24	1 or 2 Floods, 1-Sign Arm	1-Sign Arm Complete	24	270	**134.90**
300-RBL20	1 or 2 Floods, 2-Sign Arms	2-Sign Arms Complete	20	266	**132.55**
300-RBL24	1 or 2 Floods, 2-Sign Arms	2-Sign Arms Complete	24	302	**150.45**

Concrete Sleeves (Only)

No.	For Pipe Inches	For O.D. Tube, In.	Sleeve Depth	List Price	No.	For Pipe Inches	For O.D. Tube, In.	Sleeve Depth	List Price
35-X	3	3½	2′–6″	On	**60-X**	5	5½	5′	On
40-X	3½	4	2′–6″	Re-	**70-X**	6	6.6	6′	Re-
45-X	4	4½	5′	quest	**80-X**	7	7.7	7′	quest
50-X	4½	5	5′		**90-X**	8	8.6	7′	

Floodlight Brackets

No.	Type	Capacity	Wt. Lbs.	Price
199-H	1½ in. Terminal	1-Floodlight	3	**$2.90**
199-I	2 in. Terminal	1-Floodlight	3	**2.95**
199-J	1½ in. Terminals	2-Floodlights	11	**9.50**
199-K	2 in. Terminals	2-Floodlights	15	**11.00**

Lowering Chain Listings

No. 300-CH-20	For 20 Ft. Poles	**$1.76**
No. 300-CH-24	For 24 Ft. Poles	**2.09**



No. 204-L

REVERE COMBINATION SERVICE STANDARD AND HINGED FLOODLIGHT POLE

Revere Combination Standards are designed to meet the demand for a pole to carry high mounting floodlights as well as to provide water and air service facilities.

Quite often there are no locations available for a High Mounting Pole on the outskirts of the service station lot, and frequently the best lighting of the approaches can be accomplished only with high mounting floodlights located at the island.

The two styles of Poles illustrated embody the Revere Medium Duty Square Hinged Pole construction. Floodlight mounting heights are 20 or 24 feet. The Corrugated type No. 204-L and 204-N, should be used in conjunction with the Octagon Type DeLuxe Island Light Standards. The lower sections are equipped with water and/or air service. Note that two styles of bases are available. By using hose connections inside the pole at the bottom, a more simple and less expensive air and water service can be had. Listings on the Octagon Standards include water and/or air hose, but no air chuck, water faucet or floodlights.

Switches or receptacles are not included. These accessories are available at an extra charge. Anchor bolts, ¾ in. x 30 in., nuts and lock washers are furnished without extra charge for all Standards listed below. It is necessary to order proper extensions for one or two floodlights.

DE LUXE OCTAGON POLE (Ornamental Base)
Capacity—1 or 2 Floods

No.	Service	Mounting Height	Wt. Lbs. Each	List Price
204-I-20	Water and Air	20 ft.	199	**$89.45**
204-I-24	Water and Air	24 ft.	224	**93.28**
204-J20	Water	20 ft.	195	**74.77**
204-J24	Water	24 ft.	220	**78.51**
204-K20	Air	20 ft.	195	**79.10**
204-K24	Air	24 ft.	220	**82.84**

DE LUXE OCTAGON POLE (Small Base)
Capacity—1 or 2 Floods

No.	Service	Mounting Height	Wt. Lbs. Each	List Price
204-IX20	Water and Air	20 ft.	192	**$83.00**
204-IX24	Water and Air	24 ft.	217	**86.74**
204-JX20	Water	20 ft.	188	**68.14**
204-JX24	Water	24 ft.	213	**71.88**
204-KX20	Air	20 ft.	188	**72.74**
204-KX24	Air	24 ft.	213	**76.48**

CORRUGATED POLE (Small Base)
Capacity—1 or 2 Floods

No.	Service	Mounting Height	Wt. Lbs. Each	List Price
204-L20	Water and Air	20 ft.	195	**$68.44**
204-L24	Water and Air	24 ft.	220	**72.18**
204-M20	Water	20 ft.	191	**62.75**
204-M24	Water	24 ft.	216	**66.49**
204-N20	Air	20 ft.	191	**62.90**
204-N24	Air	24 ft.	216	**66.64**

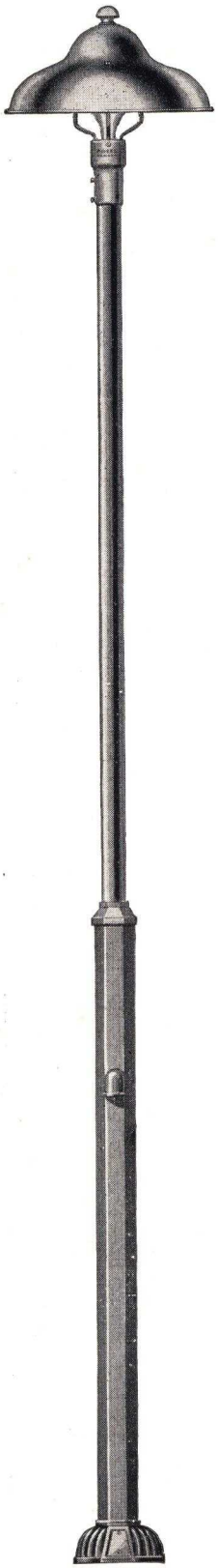
LOWERING CHAIN LISTINGS

No. 199-CH-20	For 20 Ft. Pole	**$1.76**
No. 199-CH-24	For 24 Ft. Pole	**1.76**



No. 204-I

REVERE DELUXE ISLAND LIGHTER AND SERVICE LIGHT STANDARDS



No. 203-O

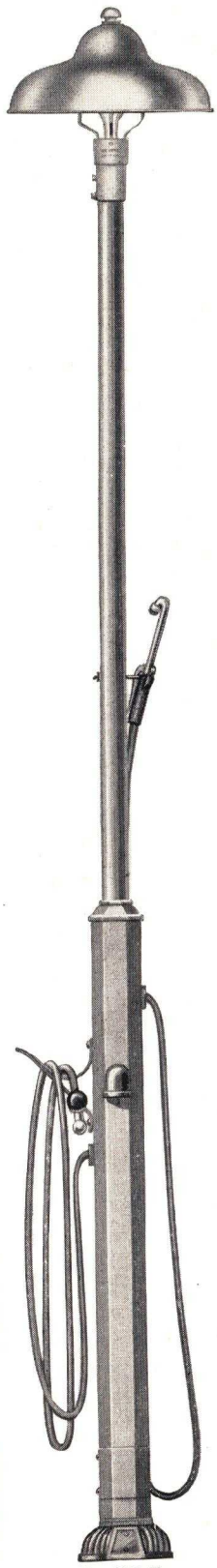
Every effort has been expended to make these Standards as distinctive and practical as possible, also to permit easy and economical installation.

The lower octagon section of these Standards is made of 10 gauge pressed steel sheet, which, on the base and bolt type illustrated, is welded to an ornamental steel base with ornamental covers for the foundation bolts and nuts. The reducer casting is designed to make the upper and lower sections harmonize. It is of steel, welded to the shaft, and threaded to accommodate the upper section of 2-in. standard steel pipe. By using a small base as shown on No. 204-L on the preceding page, a less expensive Standard, as listed below, is available with all other DeLuxe advantages. These same standards can be furnished for concrete mounting. In this case no base is provided and the shaft extends 2 feet below the top of the concrete.

By using hose connections inside the pole at the bottom, a simpler and less expensive air and water service can be had.

Standards are equipped with 12½ feet of ¼ in. hose for water, and 21½ ft. for air. The hose extends directly from the service outlet through the wall of the Standard without any piping. It is held in place and cushioned by a compression rubber sleeve, which allows no movement and eliminates wear at this point. The air hose is provided with a ¼ in. male threaded fitting, at its outer end, ready to be attached to any type of air gauge or chuck. The water hose terminates in a ¾ in. male threaded fitting to accommodate any standard faucet.

Complete description of these Standards will be supplied upon request.



No. 204-T

With Ornamental Base

No.	Description	Wt. Lbs.	Price
203-O	Light only, 4⅜ in. O.D.	65	**$35.20**
204-T	Water, air and light, 5 in. O.D.	74	**60.05**
204-U	Water and light, 5 in. O.D.	71	**43.85**
204-V	Air and light, 5 in. O.D.	71	**48.75**
204-W	Light only, 5 in. O.D.	70	**32.55**
204-D	1 Set (4) ⅝x12 in. Foundation Bolts	6	**1.95**

With Small Base

203-OX	Light only, 4⅜ in. O.D.	58	**27.50**
204-TX	Water, air and light, 5 in. O.D.	67	**52.90**
204-UX	Water and light, 5 in. O.D.	65	**36.65**
204-VX	Air and light, 5 in. O.D.	64	**46.10**
204-WX	Light only, 5 in. O.D.	63	**25.10**
204-D	1 Set (4) ⅝x12 in. Foundation Bolts	6	**1.95**

Concrete Mounting

203-OC	Light only, 4⅜ in. O.D.	70	**27.50**
204-TC	Water, air and light, 5 in. O.D.	99	**56.35**
204-UC	Water and light, 5 in. O.D.	96	**40.40**
204-VC	Air and light, 5 in. O.D.	96	**45.30**
204-WC	Light only, 5 in. O.D.	95	**29.80**

REVERE SERVICE AND ISLAND LIGHT STANDARDS



No. 204

No. 203 ISLAND LIGHTER STANDARDS

These Standards when used in conjunction with the Revere Island Lighters make it possible to light station islands, entrance and air service locations completely.

The full corrugated Standard is constructed of 3½-inch and 2⅝-inch O.D. corrugated tubing with a 2-inch pipe terminal at the top. The other Standard has 3½-inch corrugated tubing in the lower section with a steel adapter casting welded at the top, into which is screwed the 2-inch pipe, which forms the upper section.

When furnished for concrete mounting the lower section of the Pole is imbedded 2 feet in the concrete foundation. Pole is drilled and tapped 10 inches above foundation line for ¾-inch conduit.

On the base and bolt mounting, a wiring opening is provided 4¾ inches from the grade line. The replacement type is arranged at the bottom, similar to the No. 199-R Pole.

Switches or receptacles can be used to advantage on these Standards. They are not included in the listings and must be ordered separately. When ordered with Standards, drilling and tapping for their installation will be provided.

All Standards listed below place the light center of the floodlight 12 feet above grade. Island Lighters and Foundation Bolts are not included in the listings and must be ordered separately.

Corrugated Standards

No.	Description	Wt. Lbs. Each	List Price
203-B	For Base and Bolt mounting, without slip base	53	**$23.00**
203-F	For Base and Bolt mounting, with slip base	87	**31.00**
203-G	For Concrete mounting, without slip base	63	**21.00**
203-H	For Concrete mounting, with slip base	97	**30.00**
203-I	Replacement type	62	**25.00**
	(Corrugated with Round Upper Section)		
203-M	For Base and Bolt mounting	53	**21.50**
203-N	For Concrete mounting	62	**19.50**
203-R	Replacement type	62	**23.20**
203-J	1 set (4) foundation bolts, ⅝"x12" with nuts	6	**1.76**

No. 204 SERVICE AND ISLAND LIGHTER STANDARDS

For use on Pump Islands and other areas in combination with Island Lights. They are available in many styles, with or without air or water dispensing facilities and are logical aids in the promotion of efficiency and in making Service Stations more iniviting.

Among the styles listed is a Double Air Standard for locations other than the pump island. Due to the fact that the space usually allotted for air service is sufficient for two cars, double service at this point will be much appreciated by the motorist who dislikes to be inconvenienced by waiting.

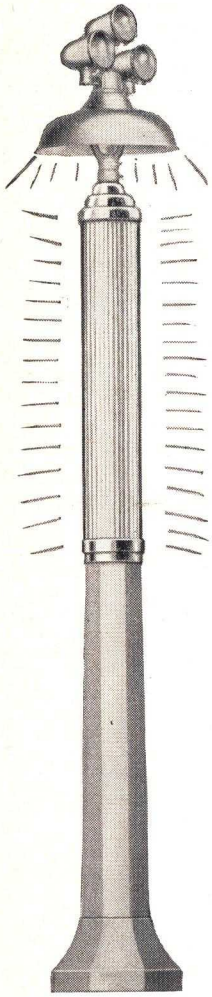
Construction details are as follows: Lower section is a 5-in. corrugated steel tube, with an ornamental steel reducer casting welded in place for screwing on the upper shaft, made of 2-inch steel pipe.

All Standards listed place the light center of the Island Light approximately 12 feet above the grade. The facilities for handling air hose and water hose are most practical and convenient. While no hose or hose fittings are furnished, water and air pipes with elbows and nipples and ground joint unions are furnished. The piping is welded in place in the Standards, ready to connect to the service piping through a large door near the grade line.

Description and Service	Base annd Bolt Mounting No.	Wt. Lbs. Each	List Price	Concrete Mounting No.	Wt. Lbs. Each	List Price
Light, Water and Air	**204**	68	**$33.57**	**204-O**	83	**$33.46**
Light and Water	**204-A**	64	**28.02**	**204-P**	85	**27.76**
Light and Air	**204-B**	65	**27.77**	**204-Q**	84	**28.03**
Light and Double Air	**204-BB**	70	**33.22**	**204-QQ**	89	**33.10**
Light only	**204-C**	60	**22.09**	**204-R**	79	**22.20**
One Set (4) ⅝"x12" foundation Bolts and Nuts	**204-D**	6	**1.76**	.....	....	.....

REVERE PYLON-LITE STANDARD

Patents Allowed and Patents Pending — Underwriters' Approved



The Revere Pylon-Lite is an exclusive Revere development designed to produce a unique and rich lighting effect with an entirely new light fixture. High intensities are developed on the vertical surfaces which heretofore have been neglected or were an after thought in most cases. Installations have conclusively proven that this Revere Pylon-Lite has a definite place in Modern Service Station lighting where a decorative and efficient light source is desired.

The 8-inch cylindrical glass enclosure houses 6 instant-start Fluorescent lamps. No. F40 T12/45W/IS/H. These lamps are mounted in special sockets and do not require any starters. A heavy steel channel serves as the structural support of the fixture as well as an enclosure for the ballasts and wiring. The lamp and ballast enclosures have been designed to provide proper operation of lamps and ballasts under extreme weather conditions.

The glass enclosures are securely sealed in two rigid hinged frames. These frames are gasketed, and are easily opened for replacement of lamps.

Overall height of Pylon-Lite Standard to top of Spotlight is 11 feet 10 inches. Height to light center of Area Light 10 feet 5 inches. Base bolt circle is 8 inches and 14 inches. Height of Octagon Shaft 5 feet. Height of Luminaire 4 feet 10 inches.

For Air and Water Service—The Pylon-Lite Standard is available with air and water outlets to permit this added service at the pump island. The Standard, of course, can be installed anywhere on the station plot, to obtain maximum visibility while dispensing water or putting air in tires. The Unit may be had with or without top area light and many combinations of top floods.

Convert Present Standards by Adding Pylon-Lite—Now any service station equipped with conventional Revere Island Light Standards (Nos. 203-M, 203-F or No. 204) can be converted to Revere Pylon-Lite Standards. Other Standards of pipe, round or corrugated tubing may be converted also, using the proper adapter to fit the outside diameter of the pipe.

For Mounting on 2-inch Pipe—Pylon-Lite is available for mounting on 2-inch pipe. Many of these units are used for driveway entrances to parks or estates, and also for used car lots, race tracks, outdoor theatres, etc.

Equipped with Reel-Well Air and Water System—The Pylon-Lite Standard with Reel-Well is available for dispensing air and water at the point of sale, streamlining the area by eliminating the older service methods. The Standard is exactly the same as No. 1942 and 1947 Units with Reel-Well added.

Wall Mounted Pylon-Lite—These units were developed in answer to the demand for a means of illuminating building entrances and other wall locations, where a rich, warm glow of light would enhance the architecture, brightening the area.

PYLON-LITE STANDARDS WITH TOP LIGHTING UNITS

With Porcelain 3018 Area Light

Cat. No.	Description	Shpg. Wt. Lbs.	Price
†1942	Standard with Area Light	278	$232.00
*†1942-F	Complete with 1 No. 3180	283	243.00
*†1942-2F	Complete with 2 No. 3186	288	254.00
*†1942-3F	Complete with 2 No. 3186 and 1 No. 3180	293	265.00

With Alzak 3017 Area Light

Cat. No.	Description	Shpg. Wt. Lbs.	Price
1947	Standard with Area Light	278	$232.00
*1947-F	Complete with 1 No. 3160	283	243.00
*1947-2F	Complete with 2 No. 3166	288	254.00
*1947-3F	Complete with 2 No. 3166 and 1 No. 3160	293	265.00

PYLON-LIGHT STANDARDS WITHOUT TOP LIGHTING UNITS

Cat. No.	Description	Shpg. Wt. Lbs.	Price
1948	Standard with No Provision for Top Floods	278	$216.00
1949	Standard with 2-inch Stub on Top for Mounting Island Lights, Floods, etc.	279	217.00

†On all porcelain enamel area lights, specify color desired.

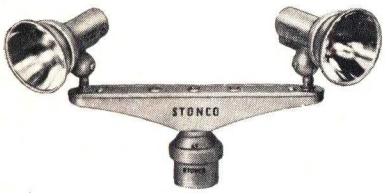
*Top floods employ PAR-38 150 watt Projector-Spot or Projector-Flood Lamps, or R-40 150 watt Reflector-Spot or Flood Lamps (medium base).

STONCO FLOODLIGHT ASSEMBLIES

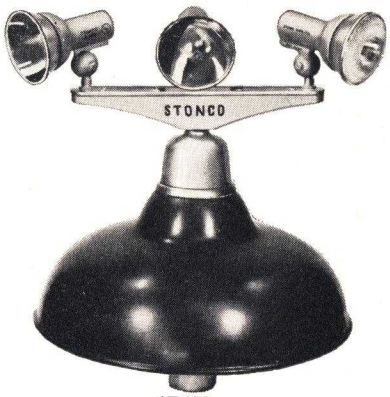
The following STONCO Floodlight Assemblies are designed to meet a rapidly increasing demand for better economical illumination. These inexpensive weatherproof units have been designed for general purpose use wherever maximum lighting effcienecy is desired. They are adjustable to all angles and utilize the PAR 38 Sealed Beam Type Flood or Spot Lamps. They are in general use for aeroplane construction, hangars, building construction, displays, driveways, golf driving ranges, carnivals, fire-fighting, excavating, gas stations, playgrounds, ship construction, swimming pools, flat-wall signs, back yards, and innumerable other places.



B152



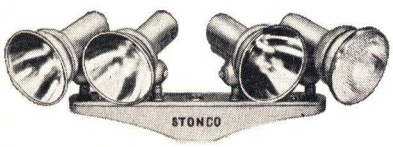
B1527



*B153



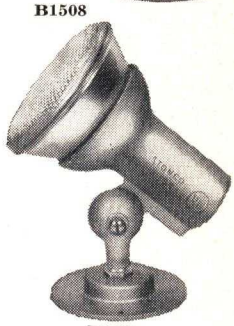
B1508

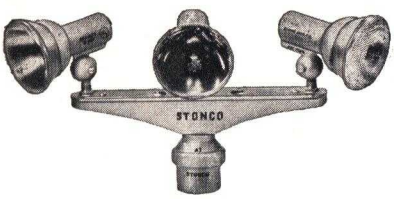


B154

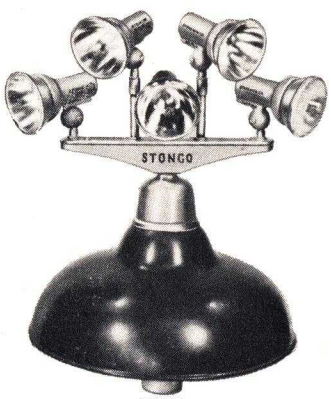


B1547

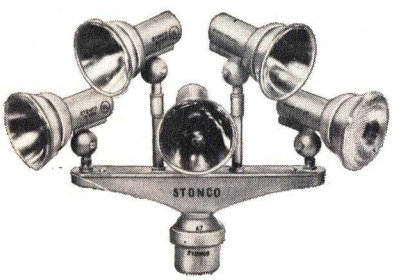

B142



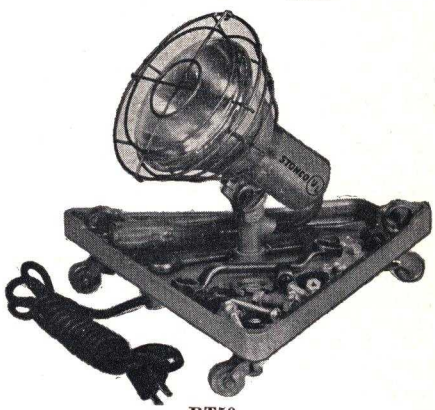
B1537



B155



B1557



RT50

Cat. No.	Description	Wt. Lbs. Each	Carton (Units)
B-152	2 light assembly	4	8
***B-153**	3 light assembly shown mounted on island light	5	8
B-154	4 light assembly	6	6
***B-155**	5 light assembly shown mounted on island light	7	5
B-1527	2 light assembly with No. 7 2″ Pipe Slip Fitter	5	7
B-1537	3 light assembly with No. 7 2″ Pipe Slip Fitter	6	7
B-1547	4 light assembly with No. 7 2″ Pipe Slip Fitter	7	5
B-1557	5 light assembly with No. 7 2″ Pipe Slip Fitter	8	5
B-1508	Lamp Holder mounted on No. 8 2″ Pipe Slip Fitter	1¾	25
B-142	Lamp Holder mounted on 3″-4″ Comb. aluminum cover	1	36
RT-50	Rolla-Tray Light weatherproof with 20 ft. oil resistant Neoprene wire, moulded rubber grip cap, wire guard	4	4

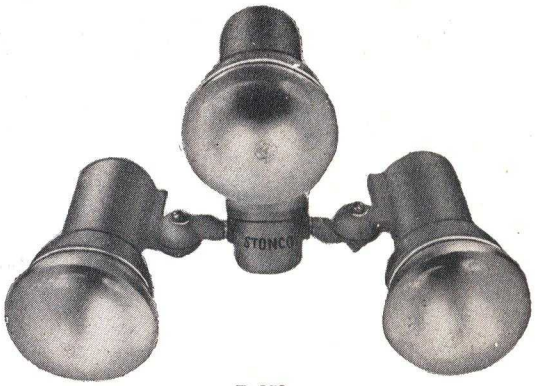
*Lamps and island light reflectors used in illustration not included in price of assembly.

STONCO "300 or 500 WATT" SEALED BEAM TYPE FLOODLIGHT ASSEMBLIES

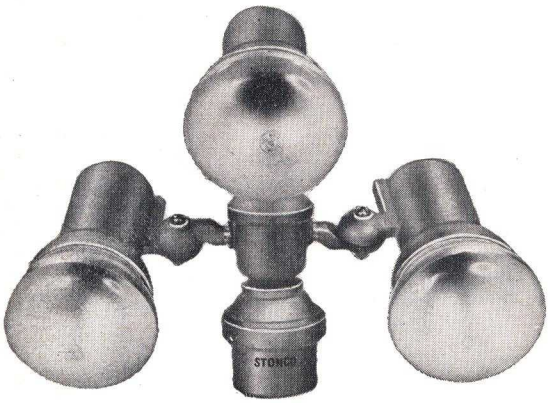
These inexpensive weatherproof units, precision machined, have been designed for general use wherever maximum lighting efficiency is desired. Created to utilize the 300 or 500 watt Sealed Beam type weatherproof Flood lamps, they are adjustable to any angle, easy to install, economical to use.

They are made of non-corrosive cast aluminum. They are completely wired for installation. They are ideally suited for the illumination of:

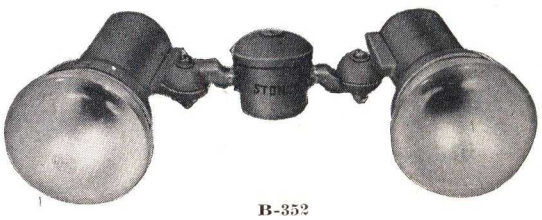
Aeroplane Construction
Aeroplane Hangars
Back Yards
Building Construction
Carnivals
Displays
Driveways
Golf Driving Ranges
Excavating
Fire Fighting
Flat Wall Signs
Gas Stations
Playgrounds
Ship Construction
Swimming Pools



B-353



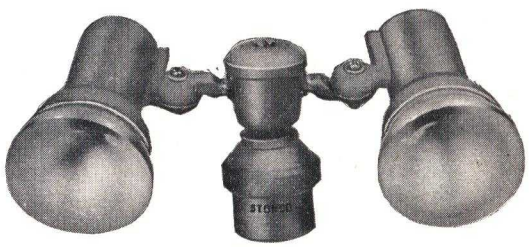
B-3537



B-352

STONCO PRODUCTS

Cat. No.	Description	Wt. Lbs.	Standard Carton
B-350	Lamp Holder Wired	1½	24
B-20	Acorn Adapter	1½	24
11	⅜-inch I.P.S. Aluminum Plug....oz.	1	100
B-351	Lamp Holder on Acorn Adapter....	2	12
B-3508	Lamp Holder on 2" Pipe Slip Fitter	2¼	12
B-342	Lamp Holder on Combination 3"-4" Cover	1¾	24



B-3527

COMBINATION ASSEMBLIES

No.	Lamp Holders	Acorn Adapter	⅜" Plug	Slip Fitter	Wt. Lbs.	Std. Carton
B-352	2	1	1	--	3½	6
B-353	3	1	--	--	5	6
B-3527	2	1	1	1	4¼	6
B-3537	3	1	--	1	5¾	6

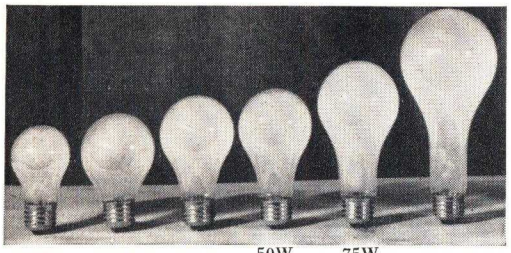
STONCO WEATHERPROOF HI-FLOOD LAMPS

Description	Wt. Lbs.	Std. Carton
300 Watt Mogul Base Hi Flood Lamps	½	12
500 Watt Mogul Base Hi Flood Lamps	½	12

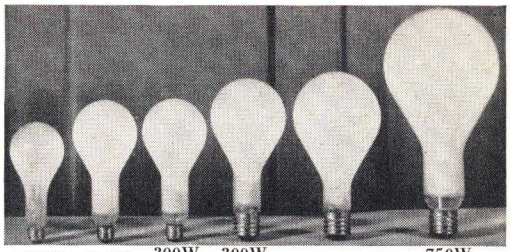
Lamps used in illustrations Not Included.

Prices on request.

GENERAL ELECTRIC LAMPS



15W 25W 40W 50W 60W 75W 100W 150W



150W 200W 300W (Med.) 300W (Mog.) 500W 750W 1000W

115, 120, and 125 Volts

GENERAL ELECTRIC INSIDE FROSTED LAMPS

For most general lighting purposes. Inside frosting diffuses the light and helps eliminate shadows and glare. Light output is practically the same as for clear lamps. Outside surface is smooth and easily cleaned.

Watts	Bulb	Base	Max. Over-all Lgth. Inches	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
15	A-15	Med.	3 1/2	15A15	120	$0.12
25	A-19	Med.	3 15/16	25A	120	.12
40	A-19	Med.	4 1/4	40A	120	.12
50	A-19	Med.	4 7/16	50A	120	.12
60	A-19	Med.	4 7/16	60A	120	.12
75	A-21	Med.	5 5/16	75A	120	.15
100	A-21	Med.	5 5/16	100A	120	.15
150	PS-25	Med.	6 15/16	150	60	$0.20
200	PS-30	Med.	8 1/16	200/IF	60	.27
300	PS-30	Med.	8 1/16	300M/IF	60	.45
300	PS-35	Mog.	9 3/8	300/IF	24	.70
500	PS-40	Mog.	9 3/4	500/IF	24	1.00
750	PS-52	Mog.	13 1/16	750/IF	6	3.05
1000	PS-52	Mog.	13 1/16	1000/IF	6	3.30

G-E DAYLIGHT LAMPS

Produce light approximating daylight. Used where color discernment is important.

10	S-14 Cl.	Med.	3 1/2	10S14/D	120	$0.30
25	A-19 Cl.	Med.	3 15/16	25A/D	120	.30
60	A-19 I.F.	Med.	4 7/16	60A/D	120	.25
100	A-23 I.F.	Med.	6 1/16	100A/D	120	.30
150	PS-25 Cl.	Med.	6 15/16	150/DCL	60	.40
150	PS-25 I.F.	Med.	6 15/16	150/D	60	.45
200	PS-30 Cl.	Med.	8 1/16	200/D	60	.70
200	PS-30 I.F.	Med.	8 1/16	200/DIF	60	.75
300	PS-35 Cl.	Mog.	9 3/8	300/D	24	1.10

G-E CLEAR LAMPS

Used in enclosed diffusing equipment or shielded reflectors which protect the eyes from glare.

150	PS-25	Med.	6 15/16	150/Cl	60	$0.20
200	PS-30	Med.	8 1/16	200	60	.27
300	PS-30	Med.	8 1/16	300M	60	.40
300	PS-35	Mog.	9 3/8	300	24	.65
500	PS-40	Mog.	9 3/4	500	24	.95
750	PS-52	Mog.	13 1/16	750	6	2.90
1000	PS-52	Mog.	13 1/16	1000	6	3.10
1500	PS-52	Mog.	13 1/16	1500	6	4.75

DISCOUNT SCHEDULE

TO PURCHASERS WITHOUT CONTRACT

Minimum List Value for Immediate Delivery to One Point:	Discount
Less than $5.00	0%
$ 5.00	20%
$15.00 or a Standard Package	25%

A standard package of large lamps is defined as a package, as packed by the manufacturer, of that "Standard Package Quantity" designated for each lamp in the manufacturer's price schedule, and the lamps in such a standard package may not be of different specifications.

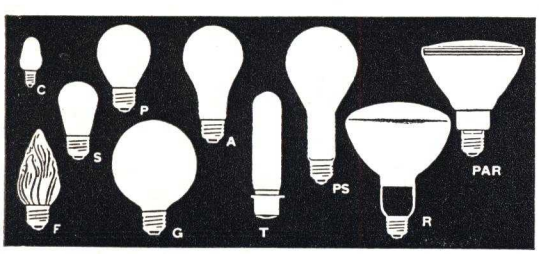
To Purchasers Under Contract		Discount for Immediate Delivery to One Point		
Basis (Net Value of Purchases) of Form E or CE Contract	$ 300	On a purchase of $15 or more list value or on a purchase of less than $15 list value which includes a standard package.	26%	On purchases of broken packages amounting to less than $15 list value. 21%
	600		28%	23%
	1,500		30%	25%
	3,500		32%	27%
	7,500		33%	28%
	15,000		34%	29%
	20,000		35%	30%
	35,000		36%	31%
	65,000		37%	32%
	100,000		38%	33%
	150,000		39%	34%
	200,000		40%	35%

HOW TO ORDER

Order by Lamp Ordering Abbreviations. Correct voltage must be specified except for Series, Fluorescent, Sun, H (Mercury), Glow, Miniature and Photo Lamps. For lamps not specifically listed specify Size, Volts or Amps, Bulb, Base, Finish and Service.

BULB SHAPES

C – Cone
S – Straight side
P – Pear shape
F – Flame shape
G – Globe shape
T – Tubular
R – Reflector shape
PS – Pear straight neck
A – Standard line
PAR – Parabolic

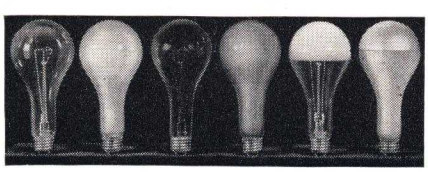


BULB DESIGNATIONS

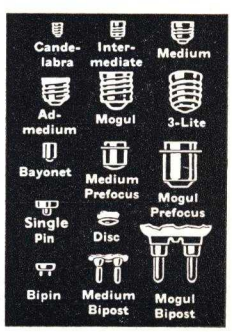
The letter in a bulb designation indicates its shape and the figure indicates its approximate diameter in eighths of an inch. Thus, a G-25 is a globular bulb approximately 3 1/8 inches in diameter.

BULB FINISHES

Clear | Inside Frosted | Clear Daylight | Frosted Daylight | White Bowl | Silvered Bowl



BASE TYPES

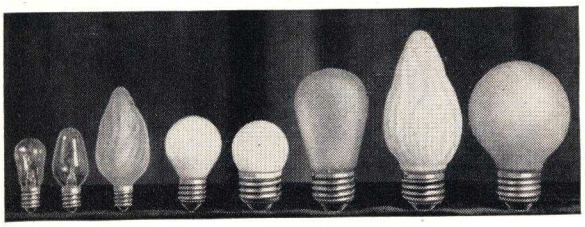


* List Prices do not include Federal Excise Tax.

GENERAL ELECTRIC LAMPS

115, 120, 125 Volts Unless Otherwise Noted.

G-E SIGN AND DECORATIVE LAMPS



6S6 7C7 15F10 10S11 7½S11 10S14 25F15 25G18½

Inside colored (I.C.) lamps are particularly adaptable to exposed lamp signs and colorful displays. Outside coated (O.C.) flameshape and round bulb lamps are used where the bulb shape is related to the artistic design of the luminaire.

Watts	Bulb and Finish	Base	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
6	S-6 Clear	Cand.	6S6	120	$0.16
7	C-7 Clear	Cand.	7C7	120	.12
7	C-7 O. C. Red	Cand.	7C7/R	120	.13
10	S-11 Clear	Inter.	10S11N	120	.16
10	S-11 White	Inter.	**10S11N/CW**	120	.21
7½	S-11 O. C. White	Med.	7½S/W	120	.15
7½	S-11 O. C. Red	Med.	7½S/R	120	.15
10	S-14 Clear	Med.	10S14	120	.15
10	S-14 I. F.	Med.	10S14/IF	120	.15
25	A-19 Colored②	Med.	25A/①	120	.17
60	A-19 Yellow	Med.	60A/Y	120	.17
100	A-21 Yellow	Med.	**100A21/61Y**	120	.25

① Substitute color symbol in place of ① in ordering abbreviation, thus: 25A/CB.

② Colors: blue (CB), flametint (CFT), green (CG), orange (CO), red (CR), rose (CR2), and yellow (CY).

15	F-10 O. C.①	Cand.	15FC/①	60	$0.20
25	F-15 Clear	Med.	25F	120	.18
25	F-15 O. C.①	Med.	25F/①	120	.18
25	G-18½ O. C. White	Med.	25G18½/W	120	.30
40	G-25 O. C. White	Med.	40G/W	60	.35

Outside coated lamps not recommended for outdoor use.

① Colors: flametint (FT), white (W), ivory (V). Substitute color symbol in place of ① in ordering abbreviation, thus: 15FC/V.

G-E THREE-LITE LAMPS

Give three levels of lighting. Used generally in table and floor lamps. Three contact bases.

30 70 100	A-21 I. F.	Med.	30/100	120	$0.30
50 100 150	PS-25 I. F.	Med.	50/150M	60	.36
50 100 150	PS-25 I. F.	Mog.	50/150	60	.48
100 200 300	G-30 I. F.	Mog.	100/300	60	.60



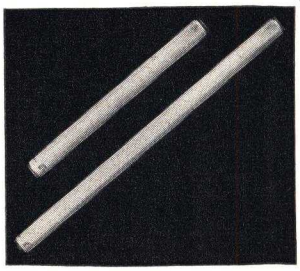
50/150

G-E COUNTRY HOME LAMPS

(30 Volts)

15	A-17 I. F.	Med.	15A	120	$0.20
25	A-19 I. F.	Med.	25A	120	.20
50	A-21 I. F.	Med.	50A21	120	.20
100	A-23 I. F.	Med.	100A	120	.33

*** List Prices do not include Federal Excise Tax.**



GENERALELECTRIC LUMILINE LAMPS

These lamps provide continuous lines of clear or colored light of low brightness. They are ideally suited to modern decorative concepts for built-in illumination or applied decoration; for displays, niches, mirrors, and the like.

Watts	Bulb and Finish	Base	Max. Over-all Length, Inches	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
30	T-8 Clear	Disc	17¾	L30	24	$1.05
30	T-8 I. F.	Disc	17¾	L30/IF	24	1.10
30	T-8 White	Disc	17¾	L30/W	24	1.15
30	T-8 Straw	Disc	17¾	L30/ST	24	1.15
40	T-8 Clear	Disc	11¾	L40	24	.90
40	T-8 I. F.	Disc	11¾	L40/IF	24	.95
40	T-8 White	Disc	11¾	L40/W	24	1.00
40	T-8 Straw	Disc	11¾	L40/ST	24	1.00
60	T-8 Clear	Disc	17¾	L60	24	1.05
60	T-8 I. F.	Disc	17¾	L60/IF	24	1.10
60	T-8 White	Disc	17¾	L60/W	24	1.15
60	T-8 Straw	Disc	17¾	L60/ST	24	1.15

G-E SILVERED BOWL LAMPS

Used with indirect lighting equipment. Have inside frosted bulb with coating of mirrored silver on the bowl.

60	A-19	Med.	4 7/16	60A/SB	120	**$0.26**
100	A-23	Med.	6 1/16	100A/SB	120	**.29**
150	PS-25	Med.	6 15/16	150/SB	60	**.45**
200	PS-30	Med.	8 1/16	200/SBIF	60	**.67**
300	PS-35	Mog.	9 3/8	300/SBIF	24	**1.20**
500	PS-40	Mog.	9¾	500/SBIF	24	**1.70**

G-E INSIDE WHITE BOWL LAMPS

White enamel coating redirects about 80% of light upwards. Used in open type direct lighting fixtures.

150	PS-25	Med.	6 15/16	150/WB	60	**$0.25**
200	PS-30	Med.	8 1/16	200/WB	60	**.32**
300	PS-35	Mog.	9 3/8	300/WB	24	**.70**

GENERAL ELECTRIC NITE LITE

For Plug-in Night Lights

7	C-7 White	Cand.	2⅛	7C7/W	120	$0.14



7C7

G-E HOME APPLIANCE LAMPS



T7 T8

These lamps have ratings of 200 hours for sewing machines and 600 hours for refrigerators.

D. C. Bayonet Candelabra Base

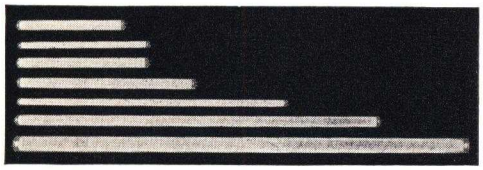
15	T-7 Clear	2⅝	15T7DC	60	$0.25
25	T-8 Clear	2⅝	25T8DC	60	.25

GENERAL ELECTRIC LAMPS

G-E GENERAL LINE FLUORESCENT LAMPS

Lower wattages fluorescent lamps, 6 to 20 watts, are used for showcases, niches, bed lamps, etc., where space is small or where low amounts of light are desired. Higher wattage lamps, 30 to 100 watts are used in homes, stores, offices, industrial plants and other applications of general lighting.

F14T12
F15T8
F15T12
F20T12
F30T8
F40T12
F100T17



Bulb	Approx. Lamp Watts	Color	Lamp Ordering Abbrev.	Std. Pkg. Qty.	*List Price
Miniature Bipin Base					
9″—T-5 (⅝″ diam.)	6	4500 White	F6T5/45W	24	$0.75
		White	F6T5/W	24	.75
		Daylight	F6T5/D	24	.75
12″—T-5 (⅝″ diam.)	8	4500 White	F8T5/45W	24	.85
		White	F8T5/W	24	.85
		Daylight	F8T5/D	24	.85
21″—T-5 (⅝″ diam.)	13	White	F13T5/W	24	.95
Medium Bipin Base					
15″—T-12 (1½″ diam.)	14	4500 White	F14T12/45W	24	.75
		White	F14T12/W	24	.75
18″—T-8 ① (1″ diam.)	15	4500 White	F15T8/45W	24	.62
		White	F15T8/W	24	.62
		Daylight	F15T8/D	24	.62
		Soft White	F15T8/SW	24	.72
		Warm Tint	F15T8/WT	24	.72
18″—T-12 (1½″ diam.)	15	4500 White	F15T12/45W	24	.75
		White	F15T12/W	24	.75
		Daylight	F15T12/D	24	.75
		Soft White	F15T12/SW	24	.85
		Warm Tint	F15T12/WT	24	.85
24″—T-12 ② (1½″ diam.)	20	4500 White	F20T12/45W	24	.75
		White	F20T12/W	24	.75
		Daylight	F20T12/D	24	.75
		Soft White	F20T12/SW	24	.85
		Warm Tint	F20T12/WT	24	.85
36″—T-8 ③ (1″ diam.)	30	4500 White	F30T8/45W	24	.75
		White	F30T8/W	24	.75
		Daylight	F30T8/D	24	.75
		Soft White	F30T8/SW	24	.85
		Warm Tint	F30T8/WT	24	.85
48″—T-12 ④ (1½″ diam.)	40	4500 White	F40T12/45W	24	1.00
		White	F40T12/W	24	1.00
		Daylight	F40T12/D	24	1.00
		Soft White	F40T12/SW	24	1.10
		Warm Tint	F40T12/WT	24	1.10
		4500 White	F40T12/45W/IS	24	1.00
		4500 White	**F40T12/45W/IS/H**	24	1.20
		Soft White	F40T12/SW/IS	24	1.10
		Warm Tint	F40T12/WT/IS	24	1.10
Mogul Bipin Base					
60″—T-17 (2⅛″ diam.)	85	4500 White	F85T17/45W	12	2.30
		White	F85T17/W	12	2.30
		Daylight	F85T17/D	12	2.30
		Soft White	F85T17/SW	12	2.50
		Warm Tint	F85T17/WT	12	2.50

① Blue (F15T8/B), green (F15T8/G) and pink (F15T8/PK).. $0.77
Gold (F15T8/GO) and red (F15T8/R) ..... .87
② Blue (F20T12/B), green (F20T12/G) and pink (F20T12/PK) .90
Gold (F20T12/GO) and red (F20T12/R) 1.00
③ Blue (F30T8/B), green (F30T8/G) and pink (F30T8/PK).. .90
Gold (F30T8/GO) and red (F30T8/R) 1.00
④ Blue (F40T12/B), green (F40T12/G) and pink (F40T12/PK) 1.25
Gold (F40T12/GO) and red (F40T12/R) 1.35

Approx. color temperatures: White — 3500°K.
4500 White — 4500°K.

*** List Prices do not include Federal Excise Tax.**

G-E SLIMLINE FLUORESCENT LAMPS

F96T8
F72T8
F64T6
F42T6

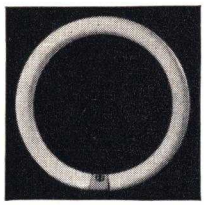


G-E Fluorescent lamps, ¾ inch and 1 inch in diameter, provide long slim lines of light and are greatly appreciated for their decorative value as well as for their lighting efficiency.

Bulb	Approx. Lamp Watts	Color	Lamp Ordering Abbrev.	Std. Pkg. Qty.	*List Price
Single Pin					
42″—T-6	16–33	4500 White.	F42T6/45W	24	$1.55
64″—T-6	24–51	4500 White.	F64T6/45W	24	1.75
72″—T-8	22–51	4500 White.	F72T8/45W	24	2.00
96″—T-8	29–69	4500 White.	F96T8/45W	24	2.70

G-E CIRCLINE FLUORESCENT LAMPS

4 Pin Base



Circline fluorescent lamps have wide use in residential floor and table lamps as well as in commercial and industrial applications. Color temperature of Circline lamps is 3500° K.

4-Pin Base					
12″ Circline 1¼″ Diam.	32	White	FC12T10/W	12	$1.85

GENERAL ELECTRIC PROJECTOR AND REFLECTOR LAMPS

115, 120, and 125 Volts



Projector Spot Projector Flood Reflector

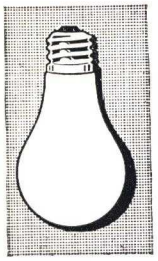
The Reflector Spot and Flood lamps provide, respectively, a concentrated beam for feature store and window displays, or a spread beam for floodlighting interiors and operations. Not for outdoor use.

The Projector Spot and Flood offer the same type of service. Being made of hard glass, they may be used indoors, or outdoors—wherever reflectors must be free from effects of weather, vapor, dust, and deterioration.

Watts	Bulb and Finish	Base	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
§GENERAL ELECTRIC PROJECTOR LAMPS					
†150	PAR-38	Med. Skt.	150PAR/SP	12	$1.55
†150	PAR-38	Med. Skt.	150PAR/FL	12	1.55
‡GENERAL ELECTRIC REFLECTOR LAMPS					
150	R-40 Light I. F.	Med.	150R/SP	24	1.05
†300	R-40 Light I. F.	Med.	300R/SP	24	1.55
150	R-40 I. F.	Med.	150R/FL	24	1.05
†300	R-40 I. F.	Med.	300R/FL	24	1.55

† Should be burned only in porcelain sockets.
§ Lamps are suitable for both outdoor and indoor use.
‡ May not give satisfactory performance if any accessory lighting equipment is attached to, or touches, the glass bulb.

SYLVANIA LIGHT BULBS
STANDARD BULBS



For General Lighting Service

Precision built, rugged and efficient. Inside frosted for better distribution of light. From 40 watts up these light bulbs are filled with argon gas to produce more light for the current consumed. Because they operate at high temperature, these gas-filled light bulbs should be protected from rain or snow when used outdoors.

115, 120 and 125 Volts
Medium Screw Base — Inside Frosted

Watts	Bulb	Overall Length	Std. Pkg.	Price Each
15	A-15	3½	120	$0.12
25	A-19	3 15/16	120	.12
40	A-19	4¼	120	.12
50	A-19	4 7/16	120	.12
60	A-19	4 7/16	120	.12
75	A-21	5 5/8	120	.15
100	A-21	5 5/16	120	.15
150	PS-25	6 1/8	60	.20

If used out of doors, the 40, 50, 60, 75, 100 and 150 watt light bulbs, which are gas filled, should be protected from rain and snow.

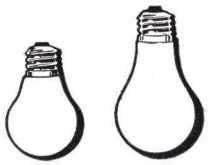
230 and 250 Volts
Medium Screw Base — Inside Frosted

Watts	Bulb	Overall Length	Std. Pkg.	Price Each
25	A-19	3 15/16	120	$0.18
*50	A-19	3 15/16	120	.18
100	A-23	6 1/16	120	.24

*For mine lighting the 50 watt light bulb is supplied in 275 or 300 volts at a list price of **$0.27.**

6 AND 12 VOLT LIGHT BULBS

Inside Frosted



Watts	Volts	Bulb	Base	Overall Length	Std. Pkg.	Price Each
15	6	A-17	Med.	3⅝	120	$0.25
15	12	A-17	Med.	3⅝	120	.30
25	6	A-19	Med.	3 15/16	120	.25
25	12	A-19	Med.	3 15/16	120	.30
50	6	A-21	Med.	4 15/16	120	.35
50	12	A-21	Med.	4 15/16	120	.40

SIGN AND DECORATIVE LIGHT BULBS

115, 120 and 125 Volts
Natural Colored Bulbs
120 Volts Only

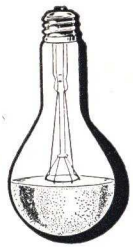


Standard package, 120.

Watts	Bulb	Base	O.A. Lgth.	Clear	I.F.	Outside White	Ceramic Colored
6	S-6	Cand.	1⅞	$0.16	.....	.....	.....
7½	S-11	Med.	2¼	.....	.....	$0.15	.....
10	S-11	Inter.	2 5/16	.16	.....	.....	$0.21*
10	S-14	Med.	3½	.15	$0.15	.....	.20†
25	A-19	Med.	3 15/16	.....	.....	.....	.17†
			Natural Colored				
10	S-14	Med.	3½	.....	.....	.....	.75‡
25	A-19	Med.	3 15/16	.....	.....	.....	.75‡
60	A-21	Med.	4 13/16	.....	.....	.....	.80A

*Ceramic white, red, blue or green.
†Ceramic red, blue or green.
‡Natural colored light bulbs are furnished blue, green, or ruby. Add **$0.10** to prices when ordering Natural Green and add **$0.10** to price shown when ordering Natural Colored Ruby.
A. Add **$0.20** when ordering natural Green or Ruby.

SYLVANIA LIGHT BULBS
LARGE WATTAGE BULBS



For General Lighting Service

Enamel on white bowl is on the inside of the bulb. It cannot discolor, chip or flake. The clear glass on the outside can be cleaned easily and quickly by wiping it with a damp cloth. Recommended for base-up burning only.

The clear 750, 1000 and 1500 watt 115-125 volt light bulbs are also suitable for floodlight service.

115, 120 and 125 Volts

Watts	Bulb	Base	Overall Length	Std. Pkg.	Price Each Clear	Inside Wh.Bowl	Inside Frosted
150	PS-25	Med.	6 1/8	60	$0.20	$0.25	$0.20
200	PS-30	Med.	8 1/16	60	.27	.32	.27
300	PS-30	Med.	8 1/16	60	.40	....	.45
300	PS-35	Mog.	9⅜	24	.65	.70	.70
500	PS-40	Mog.	9¾	24	.95	....	1.00
*750	PS-52	Mog.	13 1/16	6	2.90	....	3.05
*1000	PS-52	Mog.	13 1/16	6	3.10	....	3.30
*1500	PS-52	Mog.	13 1/16	6	4.75	....	5.00

230 and 250 Volts

200	PS-30	Med.	8 1/16	60	.50	.....	.55
300	PS-35	Mog.	9⅜	24	.85	.....	.....
500	PS-40	Mog.	9¾	24	1.40	.....	.....
*750	PS-52	Mog.	13 1/16	6	3.50	.....	.....
*1000	PS-52	Mog.	13 1/16	6	3.75	.....	.....

*Lumen maintenance best when burned vertically base up.

VIBRATION SERVICE LIGHT BULBS



For use in industrial service to combat jar or vibration. Should be used only where standard light bulbs fail to stand up.

115, 120 and 125 Volts

Watts	Bulb	Base	Overall Length	Std. Pkg.	Price Each Clear	Inside Frosted
50	A-19	Med.	3 15/16	120	$0.20	$0.20
100	A-23	Med.	6 1/16	120	.40	.35

LUMILINE LIGHT BULBS



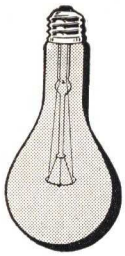
In effect tubes or lines of light, giving the impression of one continuous line of light. Use special contact cap instead of usual base.

115, 120 and 125 Volts

Watts	Bulb	Base	Overall Length	Std. Pkg.	Price Each Clear	Colored White
30	T-8	Disc,	17¾	24	$1.05	$1.15
40	T-8	Disc.	11¾	24	.90	1.00
60	T-8	Disc.	17¾	24	1.05	1.15

SYLVANIA LIGHT BULBS

DAYLIGHT BULBS



Give light of a quality which will ordinarily make colors appear about as in daylight. Especially useful in show windows, department stores, printing offices, or wherever colors have to be matched.

115, 120 and 125 Volts

Watts	Bulb	Base	Overall Length	Std. Pkg.	Price Each Clear	Price Each Inside Frosted
60	A-19	Med.	4 7/16	120	.....	$0.25
100	A-23	Med.	6 7/16	120	$0.35	.30
150	PS-25	Med.	6 13/16	60	.40	.45
200	PS-30	Med.	8 1/16	60	.70	.75
300	PS-35	Med.Skt.	9 7/8	24	1.10	.....
500	PS-40	Mog.	9 3/4	24	2.10	.....

3-LIGHT LIGHT BULBS



Give three levels of illumination. Requires special sockets. Commonly used in IES type reading or floor lamps. PS-25 burns in any position. G-30 burns base down only.

115, 120 and 125 Volts

Watts	Bulb	O.A. Lgth.	Std. Pkg.	Price Each
50-100-150	PS-25	6 13/16	60	$0.48
100-200-300	G-30	6 3/4	60	.60

3-contact mogul base. Inside frosted.

I.F. SILVERED BOWL LIGHT BULBS



115, 120 and 125 Volts

Watts	Bulb	Base	O.A. Lgth.	Std. Pkg.	Price Each
60	A-19	Med.	4 7/16	120	$0.26
100	A-23	Med.	6 7/16	120	.29
150†	PS-25	Med.	6 13/16	60	.45
200†	PS-30	Med.	8 1/16	60	.67
300†	PS-35	Med.Skt.	9 7/8	24	1.20
500†	PS-40	Mog.	9 3/4	24	1.70
750†	PS-52	Mog.	13 1/16	6	4.75
1000	PS-52	Mog.	13 1/16	6	5.00

†Burn base up in porcelain socket.

ROUGH SERVICE LIGHT BULBS



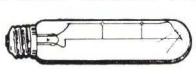
For extension cord service in machine shops, garages, on dredges, steam shovels and derricks, and in similar places where bulbs are subject to abuse. Should be used only where standard bulbs fail to stand up.

Inside frosted.

115, 120 and 125 Volts

Watts	Bulb	Base	Overall Length	Std. Pkg.	Price Each
50	A-19	Med.	3 15/16	120	$0.25
100	A-23	Med.	6 7/16	120	.35

TUBULAR LIGHT BULBS



115, 120 and 125 Volts

Watts	Bulb	Base	Overall Length	Std. Pkg.	Price Each Clear	Price Each Reflector
25	T-10	Med.	5 5/8	60	$0.27	.....
40	T- 8	Med.	11 7/8	24	.95	.....
25	T- 6½	Inter.	5½	60	.38	.....
25	T-10	Med.	5 5/8	60	.....	$0.75

SYLVANIA LIGHT BULBS



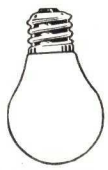
FLOODLIGHT AND SPOTLIGHT BULBS

115, 120 and 125 Volts

Watts	Bulb	Base	Service Light	Light Center Length	Over-all Length	Std. Pkg.	Price Each
100	A-21	Med.	Spot	3	4¾	120	$0.95
250	G-30	Med.	Spot	3	5⅛	60	1.40
250	G-30	Med.	Flood	3	5⅛	60	1.40
400	G-30	Med.	Spot	3	5⅛	60	1.90
500	G-40	Mog.	Flood	4¼	7 1/16	24	2.35
1000	G-40	Mog.	Flood	5¼	8	24	5.00
1000	G-40	Mog.	Spot	4¼	7 1/16	24	5.00

Can be burned in any position from vertical base down to horizontal. Orders should specify either "Floodlight Service" or "Spotlight Service."

TRAIN AND COUNTRY HOME BULBS



30* Volts

Watts	Bulb	Base	Overall Length	Std. Pkg.	Price Each
15	A-17 inside frosted	Med.	3⅝	120	$0.20
25	A-19 inside frosted	Med.	3 13/16	120	.20
50	A-21 inside frosted	Med.	4 15/16	120	.20
100	A-23 inside frosted	Med.	6 7/16	120	.33

*34-volt bulbs take a list price of $0.04, additional.

SYLVANIA SHOWCASE REFLECTOR BULB

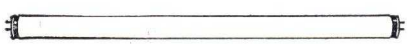


A special Sylvania bulb designed to give three times the effective illumination in showcases, at no increase in current consumption. Inside frosted, with an inside aluminum reflector which casts the light down in the showcase. Can be adjusted to direct this light just where it is needed.

115, 120 and 125 Volts

Watts	Bulb	Base	Std. Pkg.	Price Each
25	T-10	Medium	60	$0.75

SYLVANIA FLUORESCENT LAMPS



For use only with specially designed auxiliary equipment to produce proper electrical values.

Bulb	*Approx. Lamp Watts	Base	Rated Aver. Lab. Life Hrs.	Std. Pkg.	Daylight and White
9″ T-5	6	Min. Bipin	2500	24	$0.75
12″ T-5	8	Min. Bipin	2500	24	.85
15″ T-12	14	Med. Bipin	2000	24	.75
18″ T-8	15	Med. Bipin	A	24	.62
18″ T-12	15	Med. Bipin	A	24	.75
24″ T-12	20	Med. Bipin	A	24	.75
36″ T-8	30	Med. Bipin	A	24	.75
48″ T-12	40	Med. Bipin	A	24	1.00
60″ T-17	85	Mog. Bipin	Y	12	2.30

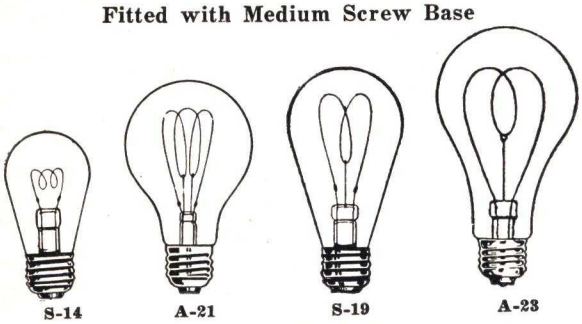
*For total, add auxiliary watts.

Burning hours, when tested on approved auxiliary equipment at its rated line voltage and frequency and on an intermittent schedule in which lamps are turned off and restarted no oftener than once every burning hour.

A. For 3, 6, or 12 burning hours per start, the rated average life is 2500, 4000 and 6000 hours respectively, under specified test conditions.

Y. For 3, 6, or 12 burning hours per start, life is 3000, 4500, and 6500.

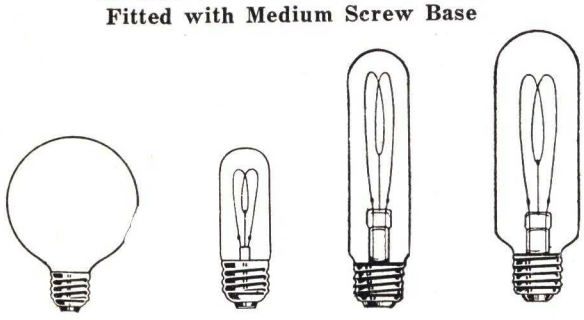
NALCO CARBON LAMPS
STRAIGHT SIDE AND PEAR SHAPE
Fitted with Medium Screw Base



110 to 130 Volts

Watts	Approx. Candle Power	Style Bulb	Diam. Bulb	Average Overall Inches	Std. Pkg.	Price Each Clear
7½	2	B-12	1 9/16	2¼	250	**$0.25**
10	2	S-14	1¾	3¼	250	**.25**
20	4	S-14	1¾	3¼	250	**.25**
30	8	A-19	2⅜	3⅞	250	**.25**
50	16	A-19	2⅜	3⅞	250	**.25**
60	16	A-19	2⅜	3⅞	250	**.25**
64	16	S-19	2⅜	5 1/16	250	**.30**
100	32	A-23	2⅞	5⅞	120	**.35**
120	32	A-23	2⅞	5⅞	120	**.35**
		220 to 250 Volts				
20	4	B-12	1 9/16	2⅝	250	**.40**
20	4	S-14	1¾	3¼	250	**.40**
35	8	A-19	2⅜	3⅞	250	**.30**
60	16	A-21	2⅝	4⅞	250	**.30**
120	32	A-23	2⅞	5⅞	120	**.40**

ROUND AND TUBULAR TYPES
Fitted with Medium Screw Base

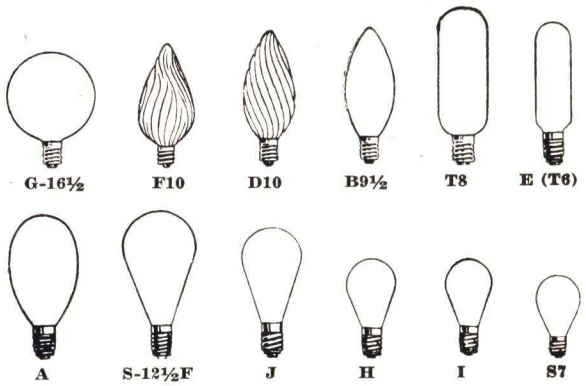


Round Type
110 to 130 Volts

Watts	Approx. Candle Power	Style Bulb	Diam. Bulb	Average Overall Inches	Std. Pkg.	Price Each Clear
30	8	G-18½	2 5/16	3¼	50	**$0.35**
60	16	G-18½	2 5/16	3¼	50	**.35**
60	16	G-25	3⅛	4¼	60	**.45**
		220 to 250 Volts				
35	8	G-18½	2 5/16	3¼	50	**.50**
60	16	G-18½	2 5/16	3¼	50	**.50**
60	16	G-25	3⅛	4¼	60	**.50**
		Tubular Type				
		110 to 130 Volts				
30	8	T- 8	1	3 3/16	60	**.35**
30	8	T- 8	1	5½	60	**.35**
30	8	T-10	1¼	5½	60	**.35**
60	16	T-10	1¼	5½	60	**.35**
100	32	T-14	1¾	5 9/16	60	**1.00**
250	....	T-21	2 11/16	11¼	6	**3.50**
500	....	T-21	2 11/16	11¼	6	**4.00**
		220 to 250 Volts				
35	8	T-10	1¼	5½	60	**.45**
60	16	T-10	1¼	5½	60	**.45**
120	32	T-14	1¾	5 9/16	60	**1.20**

NALCO CARBON LAMPS
MINIATURE TYPES

Regularly fitted with candelabra base, but also furnished at slight extra charge with miniature or bayonet bases.



110 to 130 Volts

Approx. Candle Power	Style Bulb	Diam. Bulb	Average Overall Inches	Std. Pkg.	Carton	Price Each *Clear
8	A	1 7/16	3	50	25	**$0.50**
8	B- 9½	1 3/16	3 3/16	60	30	**.45**
8	D-10	1¼	3⅜	60	30	**.50**
4	E (T6)	¾	3	72	36	**.35**
8	E (T6)	¾	3	72	36	**.35**
4	F-10	1¼	3	60	30	**.40**
8	S-12½F	1 3/16	3	50	25	**.50**
2	G- 6	¾	1 7/16	50	25	**.45**
2	G- 8	1	1⅝	50	25	**.35**
2	G-10	1¼	2	50	25	**.35**
4	G-12	1½	2¼	50	25	**.35**
8	G-16½	2 1/16	2⅞	50	25	**.35**
2	H (S9)	1⅛	2⅛	50	25	**.40**
4	H (S9)	1⅛	2⅛	50	25	**.35**
2	I (S8)	1	2	50	25	**.30**
4	I (S8)	1	2	50	25	**.30**
4	J	1⅜	2⅝	50	25	**.45**
2	S- 6	¾	1¾	50	25	**.30**
2	S- 7	⅞	1⅞	50	25	**.30**
2	T- 7	⅞	1⅞	50	25	**.30**
8	T- 8	1	3⅜	60	30	**.40**

*Add **$0.05** to Clear for Frosted. Add **$0.10** to Clear for all Standard Colors.

HIGH VOLT CANDELABRA BASE LAMPS
For Pilot Light Use

C.P.	Volts	Bulb	Diam. In.	Over-all, In.	Std. Pkg.	Carton	Price Each *Clear
8	220-250	S12½ (F)	1⅝	3	50	25	**$0.55**
4	220-250	J	1⅝	2⅝	50	25	**.55**
4	220-230	H	1⅛	2⅛	50	25	**.55**
4	240-250	H	1⅛	2¼	50	25	**.55**
4	220-230	I	1	2	50	25	**.55**
4	220-250	G12	1½	2¼	50	25	**.55**
8	220-250	G16½	2⅛	2⅞	50	25	**.55**
4	220-250	T8	1	3⅜	60	30	**.55**
4	220-230	S7 or F7	⅞	1⅞	50	25	**.55**
4	220-230	E	¾	3	72	36	**.65**
4	240-250	E	¾	3⅜	72	36	**.65**
2	240-250	H	1⅛	2	50	25	**.55**
2	240-250	I	1	2	50	25	**.55**
2	240-250	S7 or T7	⅞	1⅞	50	25	**.55**
4	220-230	S6	¾	1¾	50	25	**.65**
2	240-250	S6	¾	1¾	50	25	**.65**

*Any of the above lamps are available in Red or Frosted finish—for Frosted finish, add **$0.05** list each; for Red finish, add **$0.10** list each.

NALCO DRITHERM INFRA-RED RAY LAMPS

FOR RADIANT DRYING AND HEATING



Dritherm Lamps are the carbon filament type, the type best suited for the Infra-Red Ray process. They are available in the Clear glass for use with reflectors or the Inside Silvered type, which are self-reflecting. The Inside-Silvered is made in the 128-, 250- and 375-watt. The Clear glass is made in sizes from 80-watt to 500-watt.

DRITHERM INFRA-RED LAMPS

110-115-120 Volts

Watt	Bulb*	Diam. Bulb Inches	Light Center	Overall Length Inches	Std. Pkg. Quan.	Std. Pkg. Wt. Lbs.	List Price
	Clear Finish—Medium Screw Skirted Base						
128	PS-30	3¾	4⅞	7¾	40	16	**$0.65**
250	PS-30	3¾	4⅞	7¾	40	16	**.75**
375	PS-30	3¾	4⅞	7¾	40	16	**1.25**
128	G-25	3⅛	4	5⅛	72	20	**.65**
250	G-25	3⅛	4	5⅛	72	20	**.75**
	Clear Finish—Medium Screw Mechanical Base						
128	G-30	3¾	4⅞	7	40	16	**.70**
250	G-30	3¾	4⅞	7	40	16	**.80**
375	G-30	3¾	4⅞	7	40	16	**1.05**

*The PS-30 lamp can also be supplied with a 4¼-inch light center and 6 7/16-inch overall length. Specify overall length desired when ordering.

REFLECTOR INFRA-RED CARBON FILAMENT LAMPS

With Medium Screw Mechanical Bases
110-115-120 Volts

Watt	Bulb	Diam. Bulb Inches	Light Center	Overall Length Inches	Std. Pkg. Quan.	Std. Pkg. Wt. Lbs.	List Price
128	R-40‡	5	4¾	7	24	15	**$1.25**
250	R-40‡	5	4¾	7	24	15	**1.25**
250	R-40†	5	4¾	7	24	15	**4.00**
375	R-40‡	5	4¾	7	24	15	**1.50**
375	R-40†	5	4¾	7	24	15	**5.00**

Bulb Finish: ‡Ins. Alum. †Ins. Alum. N. Ruby.

NALCO PORTABLE INFRA-RED RAY DRYING UNITS

Excellent for spot-drying, baking, and heating. Mounted on casters with 20 feet of approved rubber cord, they may be readily moved about and quickly adjusted. Recommended for use when it is not necessary for a space to be dried under a regular stationary battery of lamps.



A-26-758—5 Light Portable Unit, equipped with 7⅝" Polished Aluminum Reflectors, Complete with 6-250 watt, G-25 Lamps. Shipping Weight 36 lbs. **$40.00**

G-26-758—5 Light Portable Unit, equipped with 7⅝" Gold Plated Reflectors, Complete with 6-250 watt, G-25 Lamps. Shipping Weight 36 lbs. **$47.50**

A-24-10—5 Light Portable Unit, equipped with 10¼" Polished Aluminum Reflectors, Complete with 5-250 PS-30 Lamps. Shipping Weight 38 lbs. **$47.50**

G-24-10—5 Light Portable Unit, equipped with 10¼" Gold Plated Reflectors, Complete with 5-250 watt, PS-30 Lamps. Shipping Weight 38 lbs. **$60.00**

A-26-13—13 Light Portable Unit, equipped with 7⅝" Polished Aluminum Reflectors, Complete with 13-250 watt, G-25 Lamps. Shipping Weight 68 lbs. **$92.50**

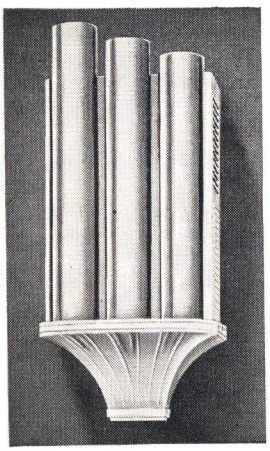
G-26-10—13 Light Portable Unit, equipped with 7⅝" Gold Plated Reflectors, Complete with 13-250 watt, G-25 Lamps. Shipping Weight 45 lbs. **$125.00**

EDWARDS DOOR CHIMES

Door Chimes by Edwards have always been recognized for their excellence of tone quality and outstanding beauty.

All tubes and tone-bars in Edwards chimes have been tested on the amazing electronic detective, the Sconoscope. This exclusive Edwards feature is your guarantee of perfect tone quality.

THE CHORDETTE III



Three delightfully different musical signals are featured in the new Edwards Chordette III. (1) A soft continuous harmony chord that can be heard anywhere in the house, sounds as long as the caller presses the button, (2) two symphonic notes in sequence, and (3) a single resonant note. The Chordette III is available in two finishes: gardenia white with sparkling chrome pipes, and warm mahogany with gleaming brass tubing.

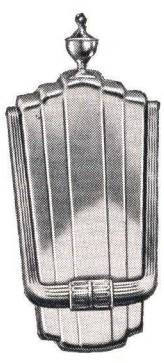
Dimensions: 11½ inches high, 5 inches wide, 3 inches deep.

Price, No. **1616**, Mahogany and Brass.....**$7.95**
No. **1617**, White and Chrome **7.95**

THE FAIRFAX

The simple traditional lines of the Fairfax will complement any home. The knocker of solid brass makes a distinctive entrance of any doorway. Interior case of warm ivory harmonizes with any decoration. It holds the "last look" mirror for checking make-up, etc.

Price, No. **1630** Fairfax.....**$7.95**



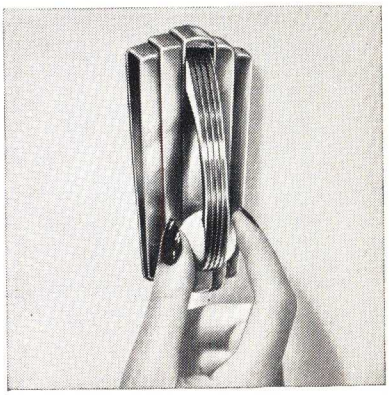
Anyone can install The Classic or The Fairfax. No wires, no batteries, no buttons. A simple non-electric installation. Drill a single hole, and Knocker Chime is ready for use.

Knocker Chime Extension Shaft

For use with Nos. 1600 and 1630, where heavier door panels, glass or grilled doors, or screen and storm doors limit installation. The 1600-L will permit installation in door panels and casings ranging form 3 to 9½ inches in thickness.

EDWARDS DOOR CHIMES

THE CLASSIC



The Classic acts like a knocker, rings like a chime. Outside guests see a door knocker of bright solid brass, with an ivory knob. Inside, a beveled, hand polished mirror on cream case for that last touch of make-up. Sounds the harmonious two-tone melody.

Price, No. **1600**, The Classic.....each **$6.95**

NuTONE LUMINOUS PUSH BUTTONS

No. PB-3 MODERN

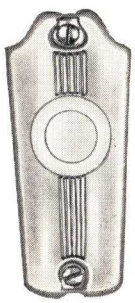


Smart black and ivory plastic, beautiful by day, luminous by night. Chrome-plated brass cover conceals mounting screws — weatherproof, rust-proof — can't stain door frame. Beautiful, 5-color self dispensing, counter unit holds 12 buttons.

Standard package: 12 buttons in counter merchandiser.

Cat. No.	Size Ins.	Shpg. Wt. Std. Pkg.	Price Each
PB-3	3x⅞	1 lb.	**$1.00**

No. PB-4 JEWEL



Colonial style polished brass 3-inch button plate — luminous button glows at night. Coil spring gives positive sliding contact — fully insulated, weatherproof. Counter unit displays 12 buttons.

Standard package: 12 buttons in counter merchandiser.

Cat. No.	Size Ins.	Shpg. Wt. Std. Pkg.	Price Each
PB-4	3x1¼	1 lb. 11 oz.	**$1.00**

No. PB-1 ROUND



All-luminous, ivory plastic button, fully insulated, has positive sliding contact. Tested and approved by leading Electrical Laboratories. Fits ⅝-inch hole.

Standard package: 24 buttons in counter merchandiser.

Cat. No.	Size Ins.	Shpg. Wt. Std. Pkg.	Price Each
PB-1	13/16	5½ oz.	**$0.35**

NuTONE DOOR CHIMES



MAJESTIC

Ivory plastic cover, trimmed with brass to match the tubes. Indirect night light at top of chime. Entire mechanism and mounting engineered for quick, easy installation. Four 1⅛ inch satin-brass tubes; selector switch to sound eight Westminster tones for front door, or only four if desired—one tone, rear. Has volume control. Complete with 20v. NuTone transformer. Width 11⅝ in.; height 49¼ in.; depth 5½ in.

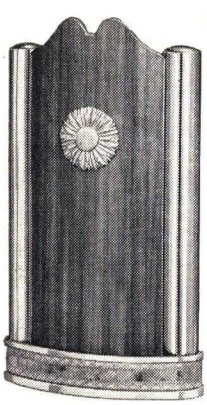
Cat. No.	Std. Pkg.	Wt.Lbs. Each	Price Each
K-44	1	15	$39.95



SUPERTONE

The answer to nationwide demand for a luxurious two-door, long-tube chime. Beautifully styled metal cover in stunning ivory plastic, trimmed with new radio-type woven brass grille. New Power-unit. Two 1⅛ inch brass tubes sound two tones for front door—one tone, rear. Width 7½ in.; height 42 in.; depth 3 in.

Cat. No.	Std. Pkg.	Wt.Lbs. Each	Price Each
K-30	6	5⅓	$10.95



SYMPHONIC

Compact elegance in an eight-tone Westminster chime. Eight tones for front door — one tone, rear. Walnut-finish cover, brass resonator tubes, brass gallery decorations. Special brass-alloy tone bars. Selector switch gives four or eight tones as desired. Volume control. Gift wrapped. Width 8 in.; height 14 in.; depth 3¼ in. Complete with 20-volt transformer.

Cat. No.	Std. Pkg.	Wt.Lbs. Each	Price Each
K-40	1	9⅓	$29.95

NuTONE DOOR CHIMES



Century

CENTURY

Modern Hall Clock and Door Chime. Rich walnut veneer cover. Both Telechron electric clock and NuTone chime operate on same 20v. transformer; gives new, simplified installation. Four 1⅛ inch brass tubes; selector switch to sound four or eight Westminster tones for front door — one tone, rear. Complete with volume control and 20v. transformer. Width 10½ in.; height 52¼ in.; depth 5¼ in.

Cat. No.	Std. Pkg.	Wt. Lbs. Each	Price Each
K-48	1	15¾	$59.95

(20% Fed. Tax on clock to be paid by consumer to retailer.)



Jefferson

JEFFERSON

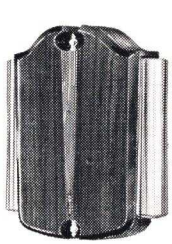
Colonial Hall Clock and Door Chime. Both Telechron electric clock and NuTone chime operate on same 20v. transformer; gives new, simplified installation. Dial matches the four 1⅛ inch brass tubes; selector switch to sound eight Westminster tones for front door, or only four if desired — one tone, rear. Complete with volume control and 20v. NuTone transformer.

Width, 10¾ in.; height, 57⅛ in.; depth, 5½ in.

Cat. No.	Std. Pkg.	Wt. Lbs. Each	Price Each
K-46	1	18¾	$69.95

(20% Fed. Tax on clock to be paid by consumer to retailer.)

JEWEL

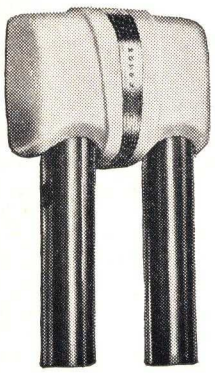


Stunning Colonial chime — with a touch of the modern. Cover cast in one piece; has walnut finish with satin brass tubes. Packed in gift carton. Two tones, front door — one tone, rear.

Cat. No.	Width Ins.	Height Ins.	Depth Ins.	Std. Pkg.	Wt. Lbs.	Price Each
K-22	7	9	3	6	4½	$9.95

NuTONE DOOR CHIMES

DE LUXE



This short-tube chime will grace many a hallway, kitchen, and breakfast nook. Smartly styled in steel by NuTone — the originator of short-tube chimes — the "De Luxe" is a 2-door chime —Ivory and Brass tubes and trim — or gleaming White and Chrome tubes and trim.

Width 7 in.; height 12¾ in.; depth 2⅝ in.

Model No.	Std. Pkg.	Wt. Lbs. Each	Price Each
K-24	6	3	$6.95

REGAL

This 2-door chime has a walnut finish cover; hammered brass decoration and two long brushed brass tubes. Noiseless power unit and volume adjustment of each tube. Width 7⅞ in.; height 37¼ in.; depth 2¾ in.

Cat. No.	Std. Pkg.	Wt. Lbs. Each	Price Each
K-27	6	3	$8.95

CONTINENTAL

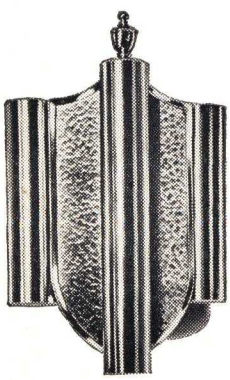
This 2-door, three long tube (center tube silent) chime is a tribute to gracious living. Ivory plastic cover, trimmed in satin Brass, blends with the "Continental's" three gold-lacquered tubes. Two tones for front door — one for rear. Width 7¾ in.; height 42 in.; depth 3 in.

Model No.	Std. Pkg.	Wt. Lbs. Each	Price Each
K-32	6	6	$12.95



Regal Continental

MOUNT VERNON



Colonial, typical of the times it represents, this 2-door model in faithfully reproduced hammered brass is an exclusive, patent-protected NuTone design. With harmonious 3-tube effect, the "Mount Vernon" sounds two tones for front door, one for rear.

Width 7 in.; height 11¾ in.; depth 3¼ in.

Cat. No.	Std. Pkg.	Wt. Lbs. Each	Price Each
K-20	6	3	$8.95

NuTONE DOOR CHIMES

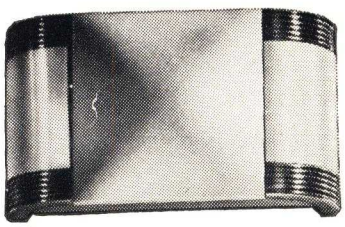
COMMANDER



Sleek, streamlined, this 2-door NuTone sounds two richly vibrant tones for front door, one for rear. Designed in lustrous plastic, the "Commander" demands attention in Ivory and satin Brass tubes and trim — or White and glittering Chrome.

Model No.	Dimens., Inches Width	Height	Depth	Std. Pkg.	Wt. Lbs. Each	Price Each
K-16	7	6¾	2¾	6	2¼	$5.95

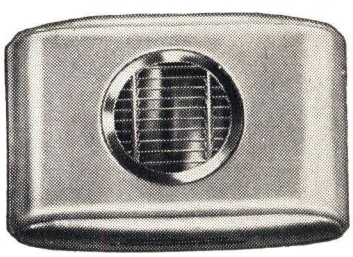
SKYLINE



Like its name, the smooth, unbroken lines of this 2-door all-plastic NuTone Chime are a joy to behold. A perfect decorative match for almost any room — in billowy White and Chrome — or rich Ivory and Brass.

Model No.	Dimens., Inches Width	Height	Depth	Std. Pkg.	Wt. Lbs. Each	Price Each
K-14	7⅝	4⅜	2½	6	1¾	$5.50

LEADER

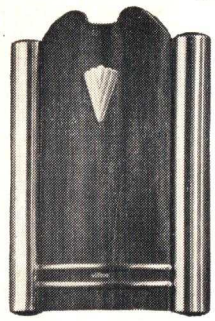


Shapely, compactly made of metal, is this melodious 2-door NuTone chime. Blends well anywhere, especially in restricted kitchen or hallway spaces. Comes in Chrome louvre and baked-enamel White cover — or satin Brass and Ivory.

Model No.	Dimens., Inches Width	Height	Depth	Std. Pkg.	Wt. Lbs. Each	Price Each
K-10	6⅞	4½	2¼	12	1¾	$3.95

NuTONE DOOR CHIMES

K-39 WALDORF

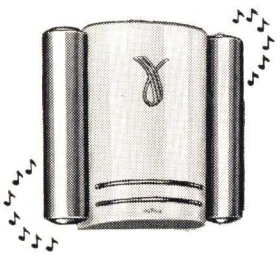


Sounds 4 beautiful, Westminster notes for front door, 2 for rear. Compact design, rich styling. Mahogany finish cover with Satin-brass tubes and trim. Telechron motored. Operates on 115 volts A.C. 20-volt NuTone transformer included. 10¾ inches high, 7½ inches wide, 3 inches deep.

Cat. No.	Std. Pkg.	Wt. Lbs. Each	Price Each
K-39	3	4½	**$22.95**

K-16-R REPEAT-A-TONE

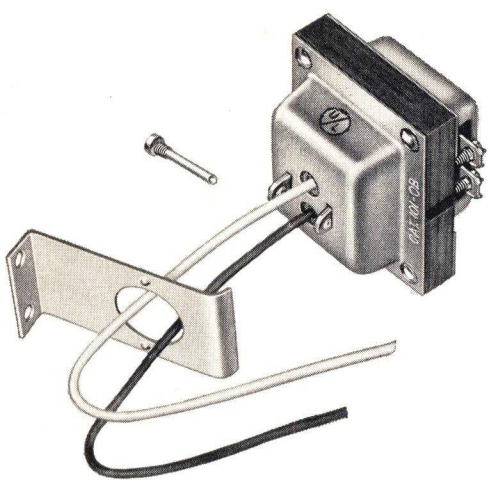
A new 3-purpose chime in an established design. Extra signal can be used for basement or garage call. Chimes (1) a continuous sounding melody, (2) 2 notes, and (3) one note. Adjustable volume control. White and chrome or ivory and brass. 6¾ inches high, 7 inches wide, 2¾ inches deep.



Cat. No.	Standard Package	Wt. Lbs. Each	Price Each
K-16-R	6 of 1 Color	2 lbs. 2 oz.	**$6.95**

NuTONE CHIME TRANSFORMERS

101-OB FOR "ANYPLACE" MOUNTING

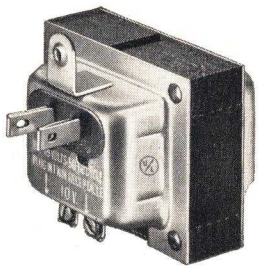


Greater power, extra strong chime transformer, sturdy construction — for top quality performance, better chime tone. Guaranteed for five years against burn out — bi-metal safety switch prevents overload damage. No outlet box plate needed for either model; mount any place — on any box (outlet, wiring, fuse or switch) or open wiring position. Can take substantial increases in instantaneous surge loads. For 115V — 50-60 cycle A. C.

Cat. No.	Volt	Dimensions Ins.	Unit Shpg. Wt.	Std. Pkg.	Price Each
101-OB	16	2¼x2¼x2½	15 oz.	12	**$2.00**
201-OB	24	2¼x3¼x2⅞	1 lb. 10 oz.	12	**2.50**

NuTONE CHIME TRANSFORMERS

101-PT PLUG TYPE TRANSFORMER



A new "plug-in" type transformer that can be plugged into any standard twin receptacle. Sturdily built for maximum performance. Built-in bi-metal thermal unit prevents damage if circuit is shorted at any time. Operates on 115 volt, 50/60 cycle.

Cat. No.	Volts	Std. Pkg.	Wt. Lbs. Each	Price Each
101-PT	16	12	1	**$2.00**
201-PT	24	12	2	**2.50**

SHELDON AND FLASH FLUORESCENT STARTER SWITCHES

Approved by Underwriters' Laboratories and C.S.A.
***Certified by E. T. L. under Spec. No. 6.**



FS-2 or FS-4



Fast Starter Type

Fully automatic, no-blink — lifetime starter. Automatic cut-off and reset. No current consumed by lamp or ballast when lamp is deactivated. No button to reset.

Cat. No.	Description	Price Each
FS-2NB*	For 15 and 20 watt lamp.....	**$0.80**
FS-4NB*	For 30 and 40 watt lamp.....	**.80**
***FS-6NB**	For 100 watt lamp.....	**1.20**
FS-64NB	For 100 watt lamp.....	**1.20**

Long Life—No Blink Type

FS-2NA**	For 15 and 20 watt lamp.....	**.46**
FS-4NA	For 30 and 40 watt lamp.....	**.46**
FS-6NA	For 100 watt lamp.....	**.94**

Sheldon Starter Switches

FS-5	For 5, 6 and 8 watt lamps....	**.42**
***FS-2**	For 15 and 20 watt lamps For 8¼" 22 watt Circline....	**.23**
***FS-4**	For 13, 30 and 40 watt lamps	**.23**
FS-44	For 40 watt low temp. lamps	**.80**
***FS-12**	For 12" 32 watt Circline.....	**.28**
FS-7	For 65 watt lamps	**.80**
FS-74	For 65 watt lamps	**.90**
FS-6	For 100 watt lamps	**.85**
FS-64	For 100 watt lamps	**.88**

Flash Starter Switches

Flash FS-2*	For 15 and 20 watt lamps....	**.25**
Flash FS-4*	For 30 and 40 watt lamps....	**.25**

****When ordering Flash Starters: For example, specify Flash FS-2NB, etc.

JEFFERSON FLUORESCENT LAMP BALLASTS



No. 234-701



No. 234-501



No. 234-601

All of the materials used in Jefferson Electric Ballasts are of selected high quality. Moisture is removed in vacuum equipment of latest design and coils are double vacuum impregnated under pressure, making them impervious to moisture under all operating conditions. Only the best grades of electrical steels are used for laminae, which are re-annealed after punching.

The rugged steel cases are black enamel finished and equipped with convenient mounting brackets.

Installation—To promote efficient and long service the usual installation precautions must be observed. Like other electrical devices, ballasts have definite operating limitations. Jefferson Ballasts are designed to deliver rated watts to the lamp at the nominal voltage indicated on each unit. Failure to install on circuits within the limits indicated in the following table will cause lamp to deliver other than its rated output and may possibly damage the ballast or lamp.

Nominal Voltage	Low Voltage	High Voltage
118	110	125
208	199	216
236	220	250

TWO-LAMP BALLASTS — 60 CYCLES

High Power Factor

Cat. No.	Circuit Voltage	Lamp Watts	Shpg. Wt. Lbs.	Appr. Watts Loss	Appr. Power Factor %	List Price
234-701	110-125	2- 15	3½	8 to 9	95-100	**$4.00**
234-711	110-125	2- 20	3½	10.0	95-100	**4.00**

With Built-in Starting Compensator

234-841	110-125	2- 30	7¼	14.5	95-100	**5.00**
234-843	220-250	2- 30	6½	12.5	95-100	**5.50**
234-846	199-216	2- 30	6½	12.0	95-100	**5.50**
234-881	110-125	2- 40	7¼	14.0	95-100	**4.40**
234-883	220-250	2- 40	6½	13.0	95-100	**5.00**
234-886	199-216	2- 40	6½	14.0	95-100	**5.50**
234-791	110-125	2-100	15½	35.0	95-100	**12.00**
234-793	220-250	2-100	15½	35.0	95-100	**13.00**
234-796	199-216	2-100	15½	35.0	95-100	**13.00**

TWO-LAMP BALLASTS — 60 CYCLES

Narrow Type (2½") with Built-In Compensator

234-441	110-125	2- 30	8	15.0	95-100	**6.00**
234-443	220-250	2- 30	7½	13.0	95-100	**6.50**
234-446	199-216	2- 30	7	12.5	95-100	**6.50**
234-481	110-125	2- 40	8	18.0	95-100	**5.50**
234-483	220-250	2- 40	7½	16.0	95-100	**6.00**
234-486	199-216	2- 40	7	12.0	95-100	**6.50**

Frequency — Frequency must agree with the frequency indicated on the ballast housing.

Ventilation — It is important that the housing in which the ballast is mounted be suitably ventilated to insure proper dissipation of heat. These units, like most electrical devices, generate a certain amount of heat during normal operation should not be more than 50 degrees C.

Reduction of Stroboscopic Effect — Each two-lamp high power factor ballast is equipped with a condenser which not only corrects the power factor but operates one lamp out of phase with the other, thereby greatly reducing the stroboscopic effect characteristic of fluorescent lamps.

THREE-LAMP BALLASTS — 60 CYCLES

High Power Factor

Cat. No.	Circuit Voltage	Lamp Watts	Shpg. Wt. Lbs.	Appr. Watts Loss	Appr. Power Factor %	List Price
234-983	110-125	3- 40	11	20.0	95-100	**$8.25**
234-980	220-250	3- 40	11	19.0	90-100	**8.75**

SINGLE-LAMP BALLASTS — 60 CYCLES

Normal Power Factor

Cat. No.	Circuit Voltage	Lamp Watts	Shpg. Wt. Lbs.	Appr. Watts Loss	Appr. Power Factor %	List Price
234-501	110-125	15	¾	3.5–4.5	55	**$0.50**
234-511	110-125	20	¾	4.5	65	**.50**
234-541	110-125	30	2¾	7.0	60	**2.00**
234-543	220-250	30	2¼	6.75	50	**1.65**
234-546	199-216	30	2¼	6.25	55	**1.65**
234-581	110-125	40	2¾	8.75	65	**2.00**
234-583	220-250	40	2¼	10.0	55	**1.65**
234-586	199-216	40	2¼	9.0	60	**1.65**

SINGLE-LAMP BALLASTS — 60 CYCLES

High Power Factor

234-601	110-125	15	1½	3.5–4.5	90-100	**3.00**
234-611	110-125	20	1½	4.5	90-100	**3.00**
234-641	110-125	30	3½	7.0	90-100	**4.00**
234-643	220-250	30	2½	6.75	90-100	**3.75**
234-646	199-216	30	2½	6.25	90-100	**3.75**
234-681	110-125	40	3½	8.75	90-100	**4.00**
234-683	220-250	40	2½	10.0	90-100	**3.75**
234-686	199-216	40	2½	9.0	90-100	**3.75**
234-691	110-125	100	11	23.0	90-100	**8.50**
234-693	220-250	100	11	23.0	90-100	**9.00**
234-696	199-216	100	10½	23.0	90-100	**9.00**

TWO-LAMP BALLASTS — 60 CYCLES

Normal Power Factor

234-985	110-125	2–15	1½	10.0	55	**1.00**
234-986	110-125	2–30	1½	10.0	55	**1.00**

CHICAGO TRANSFORMER FLUORESCENT LAMP BALLASTS

FOR USE WITH REPLACEABLE STARTING SWITCHES



Two-Lamp Ballast

Chicago Transformer's line of fluorescent lamp ballasts are designed and constructed in accordance with the requirements established by the lamp manufacturers, are listed as standard by Underwriters' Laboratories, and are guaranteed against defective material and faulty workmanship for one year from date of purchase.

Special emphasis has been placed on case designs. While still maintaining high operating performance, low losses and an absolute minimum of hum, standard mounting hole and small cross-sectional dimensions are met throughout. Cases are of heavy drawn and formed-steel construction.

Each ballast carries a label on which is indicated the rated watts delivered to the lamp at nominal voltage. This voltage should be maintained or the lamp will deliver other than its rated output. The applied voltage should therefore be maintained within the following limits:

Lowest Possible Voltage	Nominal Voltage	Highest Permissible Voltage
110	118	125
220	236	250

The frequency of the current used with the ballast must be that indicated on the ballast label.

ESSENTIAL DATA

High Power Factor Two-Lamp Ballasts 60 Cycles—Brick Type with built-in Starting Compensator

Cat. No.	Lamp Watts	Circuit Voltage	Approx. Watts Loss	Approx. Power Factor	Dimensions (Inches) Over Case	Mntg. Holes	Overall	Hght.	Wdth.	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price Each
82-2633	(2) 30	220-250	13	95-100	7¾	8 15/16	9½	2⅜	3 3/32	10	73	**$5.75**
82-2613	(2) 30	110-125	15	95-100	7¾	8 15/16	9½	2⅜	3 3/32	10	73	**5.25**
82-2634	(2) 40	220-250	13.5	95-100	7¾	8 15/16	9½	2⅜	3 3/32	10	73	**5.25**
82-2614	(2) 40	110-125	16.5	95-100	7¾	8 15/16	9½	2⅜	3 3/32	10	73	**4.75**
				High Power Factor Two-Lamp Ballasts 60 Cycles								
†**80-2611**	(2) 15	110-125	9	95-100	13	13 9/16	14½	1 5/16	2¼	20	75	**4.00**
†**80-2612**	(2) 20	110-125	9	95-100	13	13 9/16	14½	1 5/16	2¼	20	75	**4.00**
***80-2616**	(2) 100	110-125	32	95-100	18	18¾	19¼	2⅜	3 3/32	4	56	**12.00**
***80-2636**	(2) 100	220-250	32	95-100	18	18¾	19¼	2⅜	3 3/32	4	56	**13.00**
				High Power Factor Single Lamp Ballasts 60 Cycles								
80-1611	15	110-125	4.5	90-100	7½	8 3/16	8¾	1 5/16	2¼	20	41	**3.00**
80-1612	20	110-125	4.5	90-100	7½	8 3/16	8¾	1 5/16	2¼	20	43	**3.00**
80-1633	30	220-250	9	90-100	9⅜	10	10 9/16	1 5/16	1¾	20	51	**3.75**
80-1613	30	110-125	11	90-100	13	13 9/16	14¼	1 5/16	2¼	20	79	**4.00**
80-1634	40	220-250	11	90-100	9⅜	10	10 9/16	1 5/16	1¾	20	51	**3.75**
80-1614	40	110-125	10	90-100	13	13 9/16	14¼	1 5/16	2¼	20	84	**4.00**
80-1616	100	110-125	23	90-100	13¼	13⅞	14 7/16	2⅜	3 3/32	4	38	**8.50**
				Normal Power Factor Two-Lamp Ballasts 60 Cycles								
70-2611	(2) 15	110-125	9	69	5¼	6	6½	1 5/16	1¾	20	33	**1.00**
70-2612	(2) 20	110-125	9	60	5¼	6	6½	1 5/16	1¾	20	33	**1.00**
				Normal Power Factor Single Lamp Ballasts 60 Cycles								
70-1610	14	110-125	4.5	60	3¼	3 15/16	4¼	1 5/16	1¾	20	17	**.55**
70-1611	15	110-125	4.5	60	3¼	3 15/16	4¼	1 5/16	1¾	20	17	**.55**
70-1612	20	110-125	4.5	60	3¼	3 15/16	4¼	1 5/16	1¾	20	17	**.55**
70-1633	30	220-250	9	55	5¼	6	6½	1 5/16	1¾	20	35	**1.65**
70-1613	30	110-125	9	55	7½	8 3/16	8¾	1 5/16	2¼	20	54	**2.00**
70-1634	40	220-250	11	60	5¼	6	6½	1 5/16	1¾	20	35	**1.65**
70-1614	40	110-125	10	55	7½	8 3/16	8¾	1 5/16	2¼	20	54	**2.00**

†Has self-contained Starting Compensator. *No Starting Compensator necessary.

Data and prices covering 50-cycle equipment on request.

DELTA ELECTRIC LANTERNS

POWERLITE 2-REFLECTOR ELECTRIC LANTERN



Piercing 800-foot spot beam from front, flood-light from top. Two lights under instant finger tip control from same switch.

Operates on standard 6-volt lantern battery, 80 to 100 hours battery life. Rugged, beautiful, efficient.

Universal, for every use. Hangs by bail, hooks over nail in wall. Bail reverses for flood light down. Detachable guard.

Packed in individual corrugated cartons; wt. each 2½ pounds.

Priced complete less batteries.

Price, Model **A1530** With Lens Guard....each **$4.65**

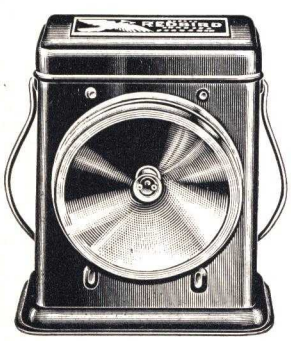
POWERAY 6-VOLT ELECTRIC HAND LANTERN



Operates on standard 6-volt lantern battery. 800-foot spot beam. Sixty-five hours continuous burning life from one fresh battery; 80 to 100 hours intermittent use. Has positive automotive type switch located at thumb tip when lantern is held in right hand. Glass Lens. Finished in baked enamel, zinc plated trimmings. Large 4½-inch highly polished reflector. Packed in individual cartons, 12 to shipping case; weight 19 pounds, less batteries.

Price, No. **A1800** less Batteries.....each **$2.50**

DELTA REDBIRD ELECTRIC LANTERN



800-foot piercing beam of brilliant diffused light. Operates on 2 No. 6 dry cells. Finished in red with chrome trimmings. Packed in individual cartons, 12 to standard shipping case; weight 32 lbs. Replacement lens P-41027; bulb, Mazda No. 248.

Price, Model **A1095**, less Batteries.....each **$2.75**

EVEREADY FLASHLIGHTS

No. 1251 2-CELL PREFOCUSED INDUSTRIAL FLASHLIGHT



General purpose type. Uses 2 Eveready No. 950 batteries and Eveready Lamp No. PR 6. Unit package quantity 1.

Price, No. **1251** Flashlight, less batteries.....**$2.75**

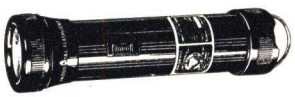
No. 1351 3-CELL PREFOCUSED INDUSTRIAL FLASHLIGHT



General purpose type. Uses 3 Eveready No. 950 batteries and Eveready Lamp No. PR 7. Unit package quantity 1.

Price, No. **1351** Flashlight, less batteries.....**$2.85**

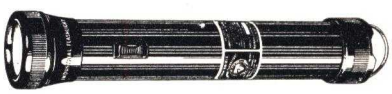
2-CELL PREFOCUSED PERMISSIBLE SAFETY FLASHLIGHT



Uses 2 Eveready No. 950 batteries and Eveready Lamp No. PR 6. Extra lamp in bottom cap included. Unit package quantity 1.

Price, No. **1259** Flashlight, less batteries.....**$5.00**

3-CELL PREFOCUSED PERMISSIBLE SAFETY FLASHLIGHT



Uses 3 Eveready No. 950 batteries and Eveready Lamp No. PR 7. Extra lamp in bottom cap included. Unit package quantity 1.

Price, No. **1359** Flashlight, less batteries.....**$5.20**

NO. 2251 2-CELL SPOTLIGHT



2-cell Automatic Spotlight. Black and chromium. Uses 2 No. 950 batteries. Eveready lamp No. PR-2.

Price, No. **2251** Spotlight, with batteries.....**$1.65**

EVEREADY FLASHLIGHTS

NO. 2671 FOCUSING SPOTLIGHT



2-cell Focusing Spotlight. Black and chromium. Uses 2 No. 950 batteries. Lamp No. 14.

Price, No. **2671** Spotlight, with batteries.....**$1.65**

NO. 220 PENLIGHT



Streamlined-designed, chromium plated, seamless brass tube, improved sliding pocket clip switch, removable lamp hood. Uses two No. 915 batteries, Eveready lamp No. 222.

Price, No. **220** Penlight, with batteries.....**$1.00**

2-CELL AUTOMATIC SPOTLIGHT



Seamless brass tube. Chromium finish with rolled-on black decoration. Uses 2 Eveready No. 935 batteries and Eveready lamp No. PR-6. Unit package quantity 3.

Price, No. **2231** Spotlight, less batteries.....**$1.45**

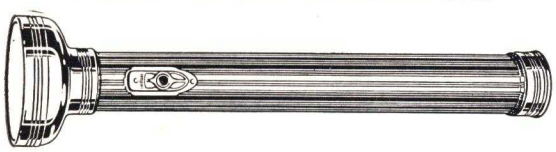
3-CELL AUTOMATIC SPOTLIGHT



Seamless brass tube. Chromium finish with rolled-on black decoration. Uses 3 Eveready No. 950 batteries and Eveready lamp No. PR-3. Unit package quantity 3.

Price, No. **2351** Spotlight, less batteries.....**$1.65**

5-CELL FOCUSING SEARCHLIGHT



Ideal for sportsmen, hunters, yachtsmen, farmers — all uses requiring powerful long range projection. Chromium fittings, heavy gauge, seamless brass tube with durable black baked-on finish. Uses 5 Eveready No. 950 batteries and Eveready lamp No. 605. Unit package quantity 1.

Price, No. **2645** Flashlight, less batteries.....**$4.00**

EVEREADY LAMPS



No. 223



No. 31

Standard Types

Eveready No.	Bulb	Volts	Amp. Rating	Std. Pkg.	Price Each
605	G-4½	6.0	.50	10	**$0.11**
222	TL-3	2.2	.25	10	**.10**
***14**	G-3½	2.5	.30	10	**.10**
13	G-3½	3.8	.30	10	**.10**
233	G-3½	2.3	.27	10	**.10**
PR-2	‡B-3½	2.4	.50	10	**.14**
PR-3	‡B-3½	3.6	.50	10	**.14**
PR-6	‡B-3½	2.5	.30	10	**.14**
PR-7	‡B-3½	3.8	.30	10	**.14**

Slow Moving Types

***502**	G-4½	5.0	.15	10	**.11**
248	G-5½	2.4	.80	10	**.11**
365	G-3½	3.6	.50	10	**.10**
112	TL-3	1.1	.22	10	**.10**
31	G-4½	6.2	.30	10	**.11**
***136**	G-4½	1.3	.60	10	**.11**
223	FE-3¾	2.2	.25	10	**.10**
†**123**	G-3½	1.2	.30	10	**.09**
†**131**	G-3½	1.3	.10	10	**.10**

*Also used as headlight lamp on bicycles. †Also used with tail-lights on bicycles. ‡Miniature flanged base.

LOW PRICE FLASHLIGHT LAMPS

Packed in a standard display platform containing 50 lamps of the same specifications. No voltages are marked on the bases but the voltages of the lamps are designated by colored beads. Not guaranteed for light source position.

Eveready No.	Bulb	Volts	Amps.	Bead Color	Price Each
714	G-3½	2.5	0.30	Blue	**$0.09**
713	G-3½	3.8	0.30	Green	**.09**

RADIO PANEL LAMPS



No. 46

Eveready No.	Bulb	Volts	Amp. Rating	Base	Price Each
40	T-3¼	6–8	.15	Min. Screw	**$0.10**
42	T-3¼	3.2	.35	Min. Screw	**.12**
46	T-3¼	6–8	.25	Min. Screw	**.10**
44	T-3¼	6–8	.25	Min. Bay.	**.10**
41	T-3¼	2.5	.50	Min. Screw	**.10**
48	T-3¼	2.0	.06	Min. Screw	**.15**
49	T-3¼	2.0	.06	Min. Bay.	**.15**
43	T-3¼	2.5	.50	Min. Bay.	**.10**
45	T-3¼	3.2	.35	Min. Bay.	**.12**
47	T-3¼	6–8	.15	Min. Bay.	**.10**

EVEREADY FLASHLIGHT BATTERIES



915 950

UNIT CELLS

Penlight Cell

Cat. No.	Size Inches	Unit Pkg.	Price Each
915	$1\frac{31}{32}$ x $\frac{35}{64}$	12	$0.075

Baby Tubular

935	2 x $1\frac{1}{32}$	12	.10

Regular Tubular

950	$2\frac{37}{64}$x$1\frac{21}{64}$	48	.10

LANTERN BATTERY

Cat. No.	No. of Cells	Size Inches	Price Each
409	4	$3\frac{27}{32}$x$2\frac{5}{8}$x$2\frac{5}{8}$	$0.80

Unit package, 1.





FLASHLIGHT LENS DISPLAY PACKAGE

Assortment No. 102. Contains 36 flashlight lenses — 32 spotlight size — 4 searchlight size. These will cover about 90 per cent of lens replacement calls. Price, Assortment No. 102, **$3.10.**

EVEREADY HOT SHOT BATTERIES



For all purposes requiring four or more dry cells in series, Eveready Hot Shot Batteries are recommended. It is only necessary to connect two wires to the binding posts and the battery is ready to operate. It is particularly adapted for tractors, small automobiles, motor boats, gas engines, blasting, fire and burglar alarms, gongs, bells, annunicators, signals, etc.

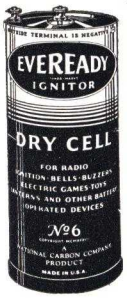
Eveready Hot Shot Batteries are composed of specially selected cells assembled in a steel container. All internal connections are made with soldered copper strips and the cells are completely insulated against accidental short circuits. Because of their rugged steel construction they are superdurable and impervious to water.

Cat. No.	Volts	Lgth. In.	Wdth. In.	Hgth. In.	Wt. Lbs. Std. Pkg.	Std. Pkg. Qty.	Price Each
1461	6	$10\frac{3}{8}$	$2\frac{3}{4}$	$7\frac{1}{4}$	60	6	$3.35

For higher voltages or for very heavy duty, several Hot Shot Batteries can be used in series or in multiple.

EVEREADY DRY BATTERIES

EVEREADY NO. 6 DRY CELL



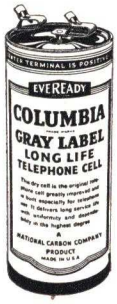
The Eveready heavy duty cell is made in No. 6 size round jackets. This dry cell is designed especially for ignition and is particularly desirable for heavy duty.

Equipped with screw terminals unless Fahnestock spring terminals are specified.

Cat. No.	Voltage	Diam. In.	Hght. In.	Price Each
6	$1\frac{1}{2}$	$2\frac{5}{8}$	$6\frac{5}{8}$	$0.70

Standard package, 12. Weight, standard package, 27 pounds.

EVEREADY COLUMBIA GRAY LABEL LONG LIFE TELEPHONE CELL

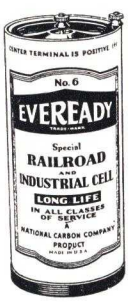


This dry cell is the original telephone cell greatly improved and is built especially for telephone use. It delivers long service life with uniformity and dependability in the highest degree.

Equipped with Fahnestock spring terminals unless screw terminals are specified.

Cat. No.	Voltage	Diam. In.	Height In.	Price Each
6	$1\frac{1}{2}$	$2\frac{5}{8}$	$6\frac{5}{8}$	$0.65

Standard package, 25. Weight, standard package, 58 pounds.



EVEREADY RAILROAD AND INDUSTRIAL No. 6 CELL

Especially designed for Railroad and Industrial use where a wide range of service conditions, from extremely heavy to extremely light are encountered. Round jacket.

Cat. No.	Voltage	Diam. In.	Hght. In.	Price Each
6	$1\frac{1}{2}$	$2\frac{5}{8}$	$6\frac{5}{8}$	$0.75

EVEREADY RADIO BATTERIES

DRY "A" BATTERIES FOR PORTABLE RECEIVERS

No. 746—4½-Volt



For AC-DC portable receivers. Standard 2-prong, 4½-volt socket. Contains 3 radio "A" cells.

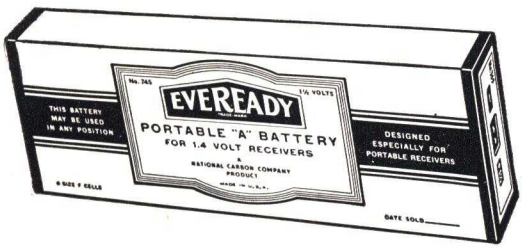
Cat. No.	Dimens., Inches Lgth.	Wdth.	Hght.	Wt. Lbs. Each	Price Each
746	$3\frac{15}{16}$	$1\frac{5}{16}$	$4\frac{21}{32}$	$1\frac{1}{4}$	$0.80

EVEREADY RADIO BATTERIES

DRY "A" BATTERIES FOR PORTABLE RECEIVERS

No. 745, 1½-Volt—No. 747, 6-Volt

8 Radio "A" Cells



For use with "Mini-Max" "B" batteries. 2 prong sockets. Contains 8 radio "A" cells. No. 747 is for AC-DC portable receivers.

Cat. No.	Socket Voltage	Dimensions, Inches Lgth.	Wdth.	Hght.	Wt. Lbs. Each	Price Each
745	1½	3⅞	1 1/16	10 25/32	2 lbs. 13 oz.	**$1.75**
747	6	3⅞	1 1/16	10 25/32	2 lbs. 13 oz.	**1.85**

"B" BATTERIES FOR PORTABLE RECEIVERS

No. 482 Eveready 45-Volt "B" Battery



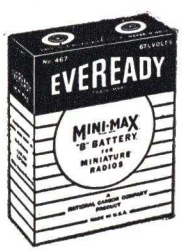
Employs a radically different principle of battery construction. It gives more than double the listening-hours of a conventional battery of equal size — or, about the same service-life as a conventional battery twice the size.

Cat. No.	Dimens., In. L.	W.	H.	Wt. Lbs. Each	Price Each
482	3 19/32	1 27/32	5½	1 lb. 14 oz.	**$2.35**

No. 467 Eveready 67½-Volt Battery

For personal or camera-type receivers. Length, 2 13/16 inches; width, 1⅜ inches; height, 3 3/4 inches.

Snap Fastener; —, +67½.



Cat. No.	Unit Pkg.	Battery Wt. Oz. Each	Price Each
467	6	12	**$2.45**



No. 455 Eveready 45-Volt Battery

For hearing aids and personal or camera-type sets. Length, 2 3/32 inches; width, 1-inch; height, 3 1/16 inches.

Snap Fastener; —, +45.

Cat. No.	Unit Pkg.	Battery Wt. Oz. Each	Price Each
455	6	8	**$1.75**

EVEREADY RADIO BATTERIES

"B" BATTERIES FOR PORTABLE RECEIVERS



No. 738 Standard Socket

A smaller plug-in type portable "B" battery for receivers with insufficient space for the larger long-lived No. 762 battery.

Cat. No.	Dimensions, Ins. Lgth.	Wdth.	Hght.	Wt. Lbs. Each	Price Each
738	3	2 5/16	4⅛	1¼	**$2.60**

"MINI-MAX" A-B BATTERY PACK

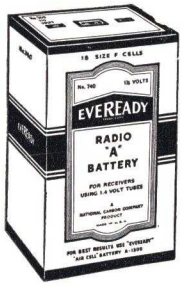
1½ Volt A—90 Volt B

The "Mini-Max" "B" battery available in an A-B Pack for farm radio receivers.



Cat. No.	Dimensions, Inches Length	Width	Height	Unit Pkg.	Wt. Lbs. Each	Price Each
758	10 1/16	4⅛	6 13/16	1	14½	**$7.95**

No. 740 DRY "A" BATTERY PACK



No. 740 is a 1½-volt Dry "A" battery pack, for use with receivers using 1.4-volt tubes. Where low initial price is the chief consideration, it will give reliable service.

An efficient "A" battery for the price but no dry "A" battery will be as satisfactory or give as many hours of service per dollar as will "Air Cell" batteries.

Price, No. **740** Battery.....**$3.95**

DRY "A" BATTERIES FOR PORTABLE RECEIVERS

No. 743—1½-Volt

Contains 6 radio "A" cells. For longest "A" battery life, the largest "A" battery that the receiver will accommodate should be used.



Cat. No.	Dimensions Lgth.	Wdth.	Hght.	Wt.Lbs. Each	Price Each
743	3 3/16	2 3/32	4 1/32	2	**$1.30**



No. 742—1½-Volt

Contains 4 radio "A" cells. This battery should be used with No. 738 "B" battery. As a general rule, the largest "A" battery that the receiver will accommodate should be used for best results.

Cat. No.	Dimensions Lgth.	Wdth.	Hght.	Wt.Lbs. Each	Price Each
742	2 19/32	2 13/32	4	1½	**$0.95**

USEFUL INFORMATION

National Electrical Code—1947

TABLE 20—CONDUCTOR SIZES AND OVERCURRENT PROTECTION FOR MOTORS

Full load current rating of motor amperes	Minimum size conductor in raceways For conductors in air or for other insulations see tables 1 and 2 AWG and MCM 1947 Code		For Running Protection of Motors****		Maximum Allowable Rating or Setting of Branch Circuit Protective Devices			
			Maximum rating of non-adjustable protective devices	Maximum setting of adjustable protective devices	WITH CODE LETTERS Single-phase and squirrel cage and synchronous. Full voltage, resistor and reactor starting, Code letters F to R inc. WITHOUT CODE LETTERS Same as above.	WITH CODE LETTERS Single-phase and squirrel cage and synchronous. Full voltage, resistor and reactor starting, Code letters B to E inc. Auto-transformer starting Code letters F to R inc. WITHOUT CODE LETTERS Squirrel cage and synchronous, auto-transformer starting, High reactance squirrel cage.*** Both not more than 30 amperes	WITH CODE LETTERS Squirrel cage and synchronous auto-transformer starting, Code letters B to E inc. WITHOUT CODE LETTERS Squirrel cage and synchronous, auto-transformer starting, High reactance squirrel cage.*** Both more than 30 amperes.	WITH CODE LETTERS All motors. Code letter A. WITHOUT CODE LETTERS DC and wound-rot. motors
	Type R Type T	Type RH	Amperes	Amperes				
Col. No. 1	2	3	5	6	7	8	9	10
1**	14	14	2*	1.25*	15	15	15	15
2**	14	14	3*	2.50*	15	15	15	15
3**	14	14	4*	3.75*	15	15	15	15
4**	14	14	6*	5.0*	15	15	15	15
5**	14	14	8*	6.25*	15	15	15	15
6**	14	14	8*	7.50*	20	15	15	15
7	14	14	10*	8.75*	25	20	15	15
8	14	14	10*	10.0*	25	20	20	15
9	14	14	12*	11.25*	30	25	20	15
10	14	14	15*	12.50*	30	25	20	15
11	14	14	15*	13.75*	35	30	25	20
12	14	14	15	15.00	40	30	25	20
13	12	12	20	16.25	40	35	30	20
14	12	12	20	17.50	45	35	30	25
15	12	12	20	18.75	45	40	30	25
16	12	12	20	20.00	50	40	35	25
17	10	10	25	21.25	60	45	35	30
18	10	10	25	22.50	60	45	40	30
19	10	10	25	23.75	60	50	40	30
20	10	10	25	25.0	60	50	40	30
22	10	10	30	27.50	70	60	45	35
24	10	10	30	30.00	80	60	50	40
26	8	10	35	32.50	80	70	60	40
28	8	10	35	35.00	90	70	60	45
30	8	8	40	37.50	90	70	60	45
32	8	8	40	40.00	100	80	70	50
34	6	8	45	42.50	110	90	70	60
36	6	8	45	45.00	110	90	80	60
38	6	6	50	47.50	125	100	80	60
40	6	6	50	50.00	125	100	80	60
42	6	6	50	52.50	125	110	90	70
44	6	6	60	55.0	125	110	90	70
46	4	6	60	57.50	150	125	100	70
48	4	6	60	60.0	150	125	100	80
50	4	6	60	62.50	150	125	100	80
52	4	6	70	65.0	175	150	110	80
54	4	4	70	67.50	175	150	110	90
56	4	4	70	70.00	175	150	120	90
58	3	4	70	72.50	175	150	120	90
60	3	4	80	75.00	200	150	120	90
62	3	4	80	77.50	200	175	125	100

USEFUL INFORMATION

TABLE 20—CONDUCTOR SIZES AND OVERCURRENT PROTECTION FOR MOTORS, Continued

National Electrical Code—1947

Col. No. 1	Type R Type T 2	Type RH 3	Amperes 5	Amperes 6	7	8	9	10
64	3	4	80	80.00	200	175	150	100
66	2	4	80	82.50	200	175	150	100
68	2	4	90	85.00	225	175	150	110
70	2	3	90	87.50	225	175	150	110
72	2	3	90	90.00	225	200	150	110
74	2	3	90	92.50	225	200	150	125
76	2	3	100	95.00	250	200	175	125
78	1	3	100	97.50	250	200	175	125
80	1	3	100	100.00	250	200	175	125
82	1	2	110	102.50	250	225	175	125
84	1	2	110	105.00	250	225	175	150
86	1	2	110	107.50	300	225	175	150
88	1	2	110	110.00	300	225	200	150
90	0	2	110	112.50	300	225	200	150
92	0	2	125	115.00	300	250	200	150
94	0	1	125	117.50	300	250	200	150
96	0	1	125	120.00	300	250	200	150
98	0	1	125	122.50	300	250	200	150
100	0	1	125	125.00	300	250	200	150
105	00	1	150	131.5	350	300	225	175
110	00	0	150	137.5	350	300	225	175
115	00	0	150	144.0	350	300	250	175
120	000	0	150	150.0	400	300	250	200
125	000	00	175	156.5	400	350	250	200
130	000	00	175	162.5	400	350	300	200
135	0000	00	175	169.0	450	350	300	225
140	0000	00	175	175.0	450	350	300	225
145	0000	000	200	181.5	450	400	300	225
150	0000	000	200	187.5	450	400	300	225
155	0000	000	200	194.0	500	400	350	250
160	250	000	200	200.0	500	400	350	250
165	250	0000	225	206.	500	450	350	250
170	250	0000	225	213.	500	450	350	300
175	300	0000	225	219.	600	450	350	300
180	300	0000	225	225.	600	450	400	300
185	300	0000	250	231.	600	500	400	300
190	300	250	250	238.	600	500	400	300
195	350	250	250	244.	600	500	400	300
200	350	250	250	250.	600	500	400	300
210	400	300	250	263.	.....	600	450	350
220	400	300	300	275.	.....	600	450	350
230	500	300	300	288.	.....	600	500	350
240	500	350	300	300.	.....	600	500	400
250	500	350	300	313.	.....	.....	500	400
260	600	400	350	325.	.....	.....	600	400
270	600	400	350	338.	.....	.....	600	450
280	600	500	350	350.	.....	.....	600	450
290	700	500	350	363.	.....	.....	600	450
300	700	500	400	375.	.....	.....	600	450
320	750	600	400	400.	.....	.....	.....	500
340	900	600	450	425.	.....	.....	.....	600
360	1000	700	450	450.	.....	.....	.....	600
380	1250	750	500	475.	.....	.....	.....	600
400	1500	900	500	500.	.....	.....	.....	600
420	1750	1000	600	525.	.....	.....	.....	.....
440	2000	1250	600	550.	.....	.....	.....	.....
460	.....	1250	600	575.	.....	.....	.....	.....
480	.....	1500	600	600.	.....	.....	.....	.....
500	.....	1500	.....	625.	.....	.....	.....	.....

*For running protection of motors of 1 horsepower or less, see section 4322.
**For the grouping of small motors under the protection of a single set of fuses, see section 4343.
***High-reactance squirrel-cage motors are those designed to limit the starting current by means of deep-slot secondaries or double-wound secondaries and are generally started on full voltage.
****For the running protection of motors, see section 4322.

FULL LOAD RATINGS OF A.C. AND D.C. MOTORS

3 Phase—60 Cycle Motors

H.P.	R.P.M.	Full Load Current			
		110 v	220 v	440 v	550 v
¼	1800	1 92	0 96	0 48	0 38
	1200	2 32	1 16	0 58	0 46
	900	2 90	1 45	0 73	0 58
⅓	1800	2 32	1 16	0 58	0 47
	1200	2 86	1 43	0 72	0 58
	900	3 50	1 75	0 88	0 71
½	1800	3.36	1.68	0.84	0.67
	1200	4.14	2 07	1 04	0 83
	900	5 80	2 90	1 45	1 16
¾	1800	4 66	2 33	1 17	0 93
	1200	5 70	2 85	1 43	1 14
	900	6 90	3 45	1 73	1 38
1	3600	5 50	2 75	1 38	1 10
	1800	6 10	3 05	1 53	1 22
	1200	7 08	3 54	1 77	1 42
	900	7 48	3 74	1 87	1 50
1½	3600	8 34	4 17	2 09	1 67
	1800	8 56	4 28	2 14	1 71
	1200	9 70	4 85	2 43	1 94
	900	11 60	5 81	2 91	2 32
2	3600	11 1	5 56	2 78	2 22
	1800	11 5	5 76	2 88	2 30
	1200	12 7	6 35	3 18	2 54
	900	14 4	7 21	3 61	2 88
3	3600	15 7	7 87	3 94	3 14
	1800	16 6	8 29	4 14	3 32
	1200	17 8	8 92	4 46	3 56
	900	20 4	10 20	5 09	4 08
5	3600	25 4	12 7	6 34	5 08
	1800	26 4	13 2	6 60	5 28
	1200	28 2	14 1	7 05	5 64
	900	31 2	15 6	7 80	6 24
7½	3600	38 4	19 2	9 6	7 68
	1800	38 6	19 3	9 7	7 72
	1200	40 6	20 3	10 2	8 12
	900	47 6	23 8	11 9	9 51
10	3600	49 0	24 5	12 3	9 8
	1800	50 4	25 2	12 6	10 1
	1200	53 2	26 6	13 3	10 6
	900	57 8	28 9	14 5	11 6
	600	67 6	33 8	16 9	13 5
15	3600	73 4	36 7	18 4	14 7
	1800	76 2	38 1	19 1	15 2
	1200	79 8	39 9	20 0	16 0
	900	83 8	41 9	21 0	16 8
	600	96 6	48 3	24 2	19 3
20	3600	98	49 0	24 5	19 6
	1800	101	50 5	25 3	20 2
	1200	103	51 7	25 9	20 6
	900	109	54 6	27 3	21 8
	600	123	61 5	30 8	24 6
25	3600	118	59 2	29 6	23.6
	1800	125	62 7	31 3	25 0
	1200	129	64 7	32 3	25 8
	900	135	67 4	33 7	27 0
	600	144	71 9	35 9	28 8
30	1800	146	72 8	36 4	29 2
	1200	154	77 1	38 6	30 8
	900	159	79 4	39 7	31 8
	600	176	87 9	43 9	35 2
40	1800	196	98	49 0	39 2
	1200	198	99	49 5	39 6
	900	208	104	52 0	41 6
	600	226	113	56 5	45 2
50	1800	242	121	60 5	48 4
	1200	244	122	61 0	48 8
	900	254	127	63 5	50 8
	600	276	138	69 0	55 2
60	1800	.....	143	71 5	57 2
	1200	.....	148	74 0	59 2
	900	.....	151	75 5	60 4
	600	.....	162	81 0	64 8
75	1800	.....	178	89 0	71 2
	1200	.....	181	90 5	72 4
	900	.....	187	93 5	74 8
	600	.....	199	99 5	79 6
100	1800	.....	233	116	93 2
	1200	.....	239	120	95 6
	900	.....	245	123	98 0
	600	.....	257	128	103.0
	450	.....	290	145	116.0

2 Phase, 4 Wire—60 Cycle Motors

H.P.	R.P.M.	Full Load Current			
		110 v	220 v	440 v	550 v
¼	1800	1 66	0 83	0.42	0.33
	1200	2 01	1 00	0.50	0.40
	900	2 51	1 25	0.63	0.50
⅓	1800	2 00	1.00	0.50	0.40
	1200	2 48	1 24	0.62	0.50
	900	3.04	1 52	0.76	0.61
½	1800	2.94	1.47	0.74	0.59
	1200	3.58	1 79	0 90	0.72
	900	5 02	2 51	1.25	1.00
¾	1800	4.03	2 02	1.01	0.81
	1200	4 93	2.47	1 24	0.99
	900	5.97	2.98	1.50	1 19
1	3600	4 76	2 38	1.19	0.95
	1800	5 28	2 64	1.32	1 06
	1200	6 13	3.06	1.53	1.23
	900	6.47	3.24	1.62	1.30
1½	3600	7 22	3 61	1.81	1.45
	1800	7 41	3.70	1 85	1.48
	1200	8 40	4 20	2.10	1.68
	900	10.0	5.03	2.52	2.01
2	3600	9 6	4.81	2.41	1.92
	1800	10 0	4.98	2.49	1.99
	1200	11 0	5.50	2.75	2.20
	900	12.5	6 23	3.12	2.49
3	3600	13.6	6.81	3.41	2 72
	1800	14 4	7 17	3.59	2.87
	1200	15 4	7 72	3.86	3.08
	900	17 7	8 80	4.40	3.54
5	3600	22 0	11 0	5.50	4.40
	1800	22 8	11 4	5.71	4.57
	1200	24 4	12 2	6 10	4.88
	900	27 0	13 5	6.75	5.40
7½	3600	33 2	16.6	8 31	6.65
	1800	33 5	16 7	8 40	6.68
	1200	35 1	17 6	8.80	7 02
	900	41 2	20 6	10 3	8.23
10	3600	42 4	21.2	10.6	8.48
	1800	43 6	21.8	10.9	8.75
	1200	46 0	23 0	11 5	9 17
	900	50 0	25 0	12.5	10.0
	600	58 5	29 2	14.6	11.7
15	3600	63 5	31 7	15.9	12.7
	1800	66 0	33 0	16.5	13.2
	1200	69 0	34 5	17.3	13.8
	900	72 5	36 3	18.2	14.5
	600	83 6	41 8	20 9	16.7
20	3600	84 8	42 4	21.2	17.0
	1800	87 5	43 7	21.9	17.5
	1200	89 2	44 7	22.4	17.8
	900	94 4	47 3	23 6	18.9
	600	106.0	53.0	26.7	21.3
25	3600	102	51 2	25 6	20.4
	1800	108	54 3	27 1	21 6
	1200	112	56 0	28 0	22 3
	900	117	58 3	29 2	23 4
	600	125	62 4	31.2	24 9
30	1800	126	63 0	31 5	25.3
	1200	133	66 7	33.4	26.7
	900	138	68 7	34 3	27 5
	600	152	76 1	38 0	30 5
40	1800	170	85	42 5	33.9
	1200	172	86	43 0	34.3
	900	180	90	45 0	36.0
	600	196	98	49 0	39 1
50	1800	209	105	52 4	41.9
	1200	211	106	52 8	42.3
	900	220	110	55.0	44.0
	600	239	120	60 0	47.7
60	1800	.....	124	62.0	49.5
	1200	.....	128	64.0	51 2
	900	.....	131	65.4	52.3
	600	.....	140	70.0	56.0
75	1800	.....	154	77.0	61.6
	1200	.....	157	78.4	62.6
	900	.....	162	81 0	64.8
	600	.....	172	86.0	68.8
100	1800	.....	202	100	80.6
	1200	.....	207	104	82.7
	900	.....	212	106	84.8
	600	.....	223	111	89.2
	450	.....	251	126	101.0

Single Phase Motors

H.P.	R.P.M.	Full Load Current			
		110 v	220 v	440 v	550 v
⅛	3600	2.52	1.26	0.63	0.50
	1800	2.80	1.40	0.70	0.56
	1200	3.40	1.70	0.85	0.68
⅙	3600	2.70	1.35	0.68	0.54
	1800	3.00	1.50	0.75	0.60
	1200	3.60	1.80	0.90	0.72
¼	3600	3.60	1.80	0.90	0.72
	1800	4.12	2.06	1.03	0.82
	1200	5.50	2.75	1.38	1.10
⅓	3600	4.50	2.25	1.13	0.90
	1800	5.00	2.50	1.25	1.00
	1200	6.00	3.00	1.50	1.20
½	3600	5.10	2.55	1.27	1.02
	1800	5.80	2.90	1.45	1.16
	1200	7.16	3.58	1.80	1.44
	900	10.0	5.02	2.50	2.00
¾	3600	7.17	3.58	1.79	1.44
	1800	8.06	4.04	2.02	1.62
	1200	9.86	4.94	2.48	1.98
	900	11.9	5.96	2.98	2.38
1	3600	9.5	4.76	2.38	1.90
	1800	10.6	5.28	2.64	2.12
	1200	12 3	6.12	3.06	2.46
	900	12.9	6.48	3.24	2.60
1½	3600	14.4	7.22	3.62	2.90
	1800	14.8	7.40	3.70	2.96
	1200	16.8	8.40	4.20	3.36
	900	20.0	10.10	5.04	4.02
2	3600	19.2	9.6	4.82	3.84
	1800	20.0	10.0	4.98	3.98
	1200	22.0	11.0	5.50	4.40
	900	25.0	12.5	6.24	4.98
3	3600	27.2	13.6	6.82	5.44
	1800	28.8	14.3	7.18	5.74
	1200	30 8	15 4	7.72	6.16
	900	35 4	17.6	8.80	7.08
5	3600	44 0	22.0	11.0	8.80
	1800	45 6	22.8	11.4	9.14
	1200	48 8	24.4	12.2	9.76
	900	54.0	27.0	13.5	10.8
7½	3600	66.4	33.2	16.6	13.3
	1800	67 0	33.4	16.8	13.4
	1200	70.2	35.2	17.6	14.0
	900	82.4	41.2	20.6	16.5
10	3600	84 8	42.4	21.2	17.0
	1800	87.2	43.6	21.8	17.5
	1200	92.0	46.0	23.0	18.3
	900	100.0	50.0	25.0	20.0
	600	117.0	58.4	29.2	23.4
15	3600	127	63.4	31.8	25.4
	1800	132	66.0	33.0	26.4
	1200	138	69.0	34.6	27.6
	900	145	72.6	36.4	29.0
	600	167	83.6	41.8	33.4

D. C. Motors

H.P.	Full Load Current		
	115 v	230 v	550 v
⅛	1.4	.7	.3
⅙	1.8	.9	.4
¼	2.3	1.2	.5
½	4.5	2.3	1.0
¾	6.5	3.3	1.4
1	8.4	4.2	1.7
1½	12.5	6.3	2.6
2	16.1	8.3	3.4
3	24.0	12.3	5.0
4	32	16.1	6.6
5	40	19.8	8.2
7½	58	28.7	12.0
10	75	38	16.0
12½	94	47	19.5
15	112	56	23.0
20	148	74	30
25	185	92	38
30	220	110	45
35	257	128	53
40	294	146	61
45	330	163	68
50	364	180	75
60	436	215	90
75	540	268	111
90	648	322	132
100	720	357	146

The full load ampere rating of motors of a given horse power rating will vary somewhat depending largely upon the type of motor. The full load values listed in the adjacent tables can be considered "average values" for the different types and makes of motors. High torque squirrel cage motors will have a full load current at least 10% higher than listed in the tables.

For 25 cycle motors, the full load current value will be approximately that of a 60 cycle motor having the same number of poles. In other words, for a 750 rpm. 25 cycle motor, use the data for the corresponding 1800 rmp. 60 cycle motor. This rule is reasonably correct for 25 cycle motors above 500 rpm.

For 2 phase, 3 wire squirrel cage motors, the current in the common line is about 1.4 times the full load current values that are listed for the 2 phase 4 wire motors.

USEFUL INFORMATION

MOTOR WIRING AND FUSING DATA

Adapted from 1947 National Electrical Code

H.P. of Motor	Current Rating Amperes	Minimum Size Wire AWG or MCM		Conduit Size		Maximum Running Fuse Amperes
		Type R or T	Type RH	Type R or T	Type RH	
Single Phase A.C.—115 Volts						
½	7.4	14	14	½	½	10
¾	10.2	14	14	½	½	15
1	13	12	12	½	½	20
1½	18.4	10	10	¾	¾	25
2	24	10	10	¾	¾	30
3	34	6	8	1	¾	45
5	56	4	4	1¼	1¼	70
7½	80	1	3	1½	1¼	100
10	100	1/0	1	1½	1½	125
Single Phase A.C.—230 Volts						
	3.7	14	14	½	½	6
	5.1	14	14	½	½	8
	6.5	14	14	½	½	10
	9.2	14	14	½	½	12
	12	14	14	½	½	15
	17	10	10	¾	¾	25
	28	8	8	¾	¾	35
	40	6	6	1	1	50
	50	4	6	1¼	1	60
Three Phase Induction Motor—220 Volts						
½	2	14	14	½	½	3
¾	2.8	14	14	½	½	4
1	3.5	14	14	½	½	4
1½	5	14	14	½	½	8
2	6.5	14	14	½	½	8
3	9	14	14	½	½	12
5	15	12	12	½	½	20
7½	22	10	10	¾	¾	30
10	27	8	8	¾	¾	35
15	40	6	6	1	1	50
20	52	4	6	1¼	1	70
25	64	3	4	1¼	1¼	80
30	78	1	3	1½	1¼	100
40	104	2/0	1	2	1½	125
50	125	3/0	2/0	2	2	175
60	150	4/0	3/0	2½	2	200
75	185	300	4/0	2½	2½	250
100	246	500	350	3	3	300
125	310	750	600	3½	3½	400
150	360	1000	700	4	3½	450
200	480	.....	1500	.....	5	600
Three Phase Induction Motor—440 Volts						
	1	14	14	½	½	2
	1.4	14	14	½	½	2
	1.8	14	14	½	½	3
	2.5	14	14	½	½	4
	3.3	14	14	½	½	4
	4.5	14	14	½	½	6
	7.5	14	14	½	½	10
	11	14	14	½	½	15
	14	12	12	½	½	20
	20	10	10	¾	¾	25
	26	8	8	¾	¾	35
	32	8	8	¾	¾	40
	39	6	6	1	1	50
	52	4	6	1¼	1	70
	63	3	4	1¼	1¼	80
	75	2	3	1¼	1¼	100
	93	1/0	1	2	1½	125
	123	3/0	2/0	2	2	150
	155	4/0	3/0	2½	2	200
	180	300	4/0	2½	2½	225
	240	500	350	3	3	300
D.C.—115 Volts						
½	4.6	14	14	½	½	6
¾	6.6	14	14	½	½	10
1	8.6	14	14	½	½	12
1½	12.6	12	12	½	½	15
2	16.4	10	10	¾	¾	20
3	24	10	10	¾	¾	30
5	40	6	6	1	1	50
7½	58	3	4	1¼	1¼	70
10	76	2	3	1¼	1¼	100
15	112	2/0	1/0	2	1½	150
20	148	4/0	3/0	2	2	200
25	184	300	4/0	2½	2	250
30	220	400	300	3	2½	300
40	292	700	500	3½	3	400
50	360	1000	700	4	3½	450
D.C.—230 Volts						
	2.3	14	14	½	½	3
	3.3	14	14	½	½	4
	4.3	14	14	½	½	6
	6.3	14	14	½	½	8
	8.2	14	14	½	½	12
	12	14	14	½	½	15
	20	10	10	¾	¾	25
	29	8	8	¾	¾	40
	38	6	6	1	1	50
	56	4	4	1¼	1¼	70
	74	2	3	1¼	1¼	90
	92	1/0	2	1½	1¼	125
	110	2/0	1/0	2	1½	150
	146	4/0	3/0	2	2	200
	180	300	4/0	2½	2	225

Conduit size based on three conductors in one conduit for three phase A.C. motors and on two conductors in one conduit for direct current and single phase A.C. motors.

USEFUL INFORMATION

WIRING FORMULA

From Ohm's Law the proper size of wire that is necessary to carry a current any distance with a given loss in volts can be readily determined.

$$\frac{\text{Length of run in ft.} \times \text{amperes} \times 21.5}{\text{Volts lost}} = \text{Circular Mils}$$

In the above Formula the number of feet must be measured one way, not both sides of the circuit; volts lost should be taken as the drop allowed in volts, and circular mils show the size of wire to use.

Example:—What size wire should be used on a 250-volt circuit where it is necessary to carry 150 amperes a distance of 300 feet to a center of distribution with a loss of 3 per cent. under full load?

$$\frac{300 \times 150 \times 21.5}{7.5}$$

= 129,000 circular mils, or No. 00 B. & S. gauge which is the next size heavier.

In using this or any other formula to determine the size of copper to use, care should be taken to see that the size adopted is not smaller than allowed in the Underwriters' table of safe carrying capacities, which are fixed without considering the loss in line.

The general practice in balanced 3-wire direct-current systems with a ceneral neutral wire is to figure the line loss on the same size as either of the others.

The above Wiring Formula is based upon one foot of copper wire, having a cross sectional area of one circular mil, with a resistance of approximately 10.75 ohms, so that the resistance of any copper wire—

$$\frac{\text{Length in feet} \times 10.75}{\text{Circular Mils}}$$

Substituting this expression for R. in Ohm's Law:

$$E = \frac{C \times \text{length in feet} \times 10.75}{\text{Circular Mils}}$$

and circular mils =

$$\frac{C \times \text{length in feet} \times 10.75}{E}$$

In the Wiring Formula, however, the length in feet is considered the "run" one side of the circuit, and the term 10.75 is multiplied by 2.

CARRYING CAPACITIES OF INSULATED WIRES AND CABLES

Number A.W.G.	Capacity Circular Mils	Amperes: Rubber Insulation	Amperes: Weatherproof Insulation
18	1,624	3	6
16	2,583	6	10
14	4,107	15	20
12	6,530	20	30
10	10,380	25	35
8	16,510	35	50
6	26,250	50	70
5	33,100	55	80
4	41,740	70	90
3	52,630	80	100
2	66,370	90	125
1	83,690	100	150
0	105,500	125	200
00	133,100	150	225
000	167,800	175	275
-------	200,000	200	300
0000	211,600	225	325
-------	300,000	275	400
-------	400,000	325	500
-------	500,000	400	600
-------	600,000	450	680
-------	700,000	500	760
-------	800,000	550	840
-------	900,000	600	920
-------	1,000,000	650	1,000
-------	1,100,000	690	1,080
-------	1,200,000	730	1,150
-------	1,300,000	770	1,220
-------	1,400,000	810	1,290
-------	1,500,000	850	1,360
-------	1,600,000	890	1,430
-------	1,700,000	930	1,490
-------	1,800,000	970	1,550
-------	1,900,000	1,010	1,610
-------	2,000,000	1,050	1,670

Drop of potential is not taken into consideration in the above table. These amperages for rubber-covered wires are adopted because to exceed them may cause gradual deterioration of the insulation even though the chance of ignition from overheating may be small.

Wires smaller than No. 14 should not be used except as prescribed in Underwriters' rules.

VOLTS LOST PER 1,000 FEET PER AMPERE

Size Circular Mils	Volts Lost	Size Circular Mils	Volts Lost
2,000,000	0.00535	0000	0.05053
1,750,000	0.00611	000	0.06372
1,500,000	0.00713	00	0.08035
1,250,000	0.00856	0	0.10126
1,000,000	0.01070	1	0.12776
950,000	0.01126	2	0.16109
900,000	0.01189	3	0.20315
850,000	0.01259	4	0.25615
800,000	0.01337	5	0.32302
750,000	0.01427	6	0.40732
700,000	0.01529	7	0.51367
650,000	0.01646	8	0.64767
600,000	0.01783	9	0.81659
550,000	0.01945	10	1.0300
500,000	0.02140	12	1.6375
450,000	0.02378	14	2.6685
400,000	0.02675	16	4.1397
350,000	0.03057	18	6.5828
300,000	0.03567	19	8.5376
250,000	0.04280	20	10.467

USEFUL INFORMATION

EQUIVALENTS OF WIRES

Showing Approximately Equal Capacities in the Use of Conductors of Different Sizes

Total Capacity C. M.	Equivalent in Number of Smaller Conductors or Combinations					Combinations	
	2	3	4	5	6		
1000000	.....	.....	.....	0000	000	.....	.....
800000	.....	.....	0000	000	00	.....	.....
600000	.....	0000	000	00	0	.....	.....
500000	.....	000	00	0	1	.....	.....
400000	0000	00	0	1	2	.....	.....
350000	000	.....	1	2	.....	0000 & 00	.....
300000	.....	0	2	.....	3	000 & 00	0000 & 1
250000	00	1	.....	3	4	000 & 1	0000 & 4
B. & S.							
0000	0	2	3	4	5	00 & 1	000 & 2
000	1	3	4	5	6	0 & 2	00 & 5
00	2	4	5	6	.....	1 & 3	0 & 6
0	3	5	6	.....	8	2 & 4	.....
1	4	6	.....	8	.....	3 & 5	.....
2	5	.....	8	.....	.....	4 & 6	.....
3	6	8	.....	10	.....	.....	.....
4	.....	.....	10	.....	.....	6 & 8	.....
5	8	10	.....	12	.....	.....	.....
6	.....	.....	12	.....	14	8 & 10	.....
8	.....	.....	14	.....	16	10 & 12	.....
10	.....	.....	16	.....	18	12 & 14	.....

FORMULÆ FOR DETERMINING AMPERES, HORSEPOWER, KILOWATTS AND K. V. A.

To Find	Direct Current	Alternating Current: Single-Phase	Alternating Current: Two-Phase* Four-Wire	Alternating Current: Three-Phase
Amperes when Horsepower is Known	$\frac{H.P.\times 746}{E\times \%Eff.}$	$\frac{H.P.\times 746}{E\times \%Eff.\times P.F.}$	$\frac{H.P.\times 746}{2\times E\times \%Eff.\times P.F.}$	$\frac{H.P.\times 746}{1.73\times E\times \%Eff.\times P.F.}$
Amperes when Kilowatts is Known	$\frac{K.W.\times 1000}{E}$	$\frac{K.W.\times 1000}{E\times P.F.}$	$\frac{K.W.\times 1000}{2\times E\times P.F.}$	$\frac{K.W.\times 1000}{1.73\times E\times P.F.}$
Amperes when K.V.A. is Known		$\frac{K.V.A.\times 1000}{E}$	$\frac{K.V.A.\times 1000}{2\times E}$	$\frac{K.V.A.\times 1000}{1.73\times E}$
Kilowatts	$\frac{I\times E}{1000}$	$\frac{I\times E\times P.F.}{1000}$	$\frac{I\times E\times 2\times P.F.}{1000}$	$\frac{I\times E\times 1.73\times P.F.}{1000}$
K.V.A.		$\frac{I\times E}{1000}$	$\frac{I\times E\times 2}{1000}$	$\frac{I\times E\times 1.73}{1000}$
Horse-power (Output)	$\frac{I\times E\times \%Eff.}{746}$	$\frac{I\times E\times \%Eff.\times P.F.}{746}$	$\frac{1\times E\times 2\times \%Eff.\times P.F.}{746}$	$\frac{I\times E\times 1.73\times \%Eff.\times P.F.}{746}$

I=Amperes; E=Volts; %Eff.=per cent Efficiency; P.F.=Power-Factor.
K.W.=Kilowatts; K.V.A.=Kilo Volt-Amperes; H.P.=Horse-power.

*For three-wire, two-phase circuits the current in the common conductor is 1.41 times that in either of the other two conductors.

MOTOR DUTY RATINGS
By
THE ELECTRIC POWER CLUB

Approximate Percentage of Full Load Current on First Point	Light Starting—15 Seconds to Four Minutes	Heavy Starting—30 Seconds to Four Minutes	Light Intermittent Duty—One to Four Minutes	Heavy Intermittent Duty—Two to Four Minutes	Continuous
25	No. 11	No. 31	No. 51	No. 71	No. 91
50	No. 12	No. 32	No. 52	No. 72	No. 92
70	No. 13	No. 33	No. 53	No. 73	No. 93
100	No. 14	No. 34	No. 54	No. 74	No. 94
150	No. 15	No. 35	No. 55	No. 75	No. 95
200 or More	No. 16	No. 36	No. 56	No. 76	No. 96

USEFUL INFORMATION

WIRING TABLES

Two Per Cent Loss on 110 Volts

Capacity Amperes	Distance in Feet to Center of Distribution																		
	20	30	40	50	60	70	80	90	100	120	140	160	180	200	240	280	320	360	400
1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	16	15	15	14	14
1.5	....	....	....	....	....	....	....	....	....	....	....	16	15	15	14	14	13	12	12
2	....	....	....	....	....	....	....	....	....	16	15	15	14	14	13	12	12	11	11
3	....	....	....	....	....	....	16	15	15	14	14	13	12	12	11	11	10	9	9
4	....	....	....	....	16	15	15	14	14	13	12	12	11	11	10	9	9	8	8
5	....	....	....	16	15	14	14	13	13	12	11	11	10	10	9	8	8	7	7
6	....	....	16	15	14	14	13	12	12	11	11	10	9	9	8	8	7	7	6
7	....	16	15	14	14	13	12	12	11	11	10	9	9	8	7	7	6	6	5
8	....	16	15	14	13	12	12	11	11	10	9	9	8	8	7	7	6	5	5
9	....	15	14	13	12	12	11	11	10	9	9	8	8	7	7	6	5	5	4
10	16	15	14	13	12	11	11	10	10	9	8	8	7	7	6	5	5	4	4
12	16	14	13	12	11	11	10	9	9	8	8	7	7	6	5	5	4	4	3
14	15	14	12	11	11	10	9	9	8	7	7	6	6	5	5	4	3	3	2
16	15	13	12	11	10	9	9	8	8	7	7	6	5	5	4	3	3	2	2
18	14	12	11	10	9	9	8	8	7	7	6	5	5	4	4	3	2	2	1
20	14	12	11	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1	1
25	13	11	10	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0	0
30	12	10	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0	00	00
35	11	10	8	7	7	6	5	5	4	4	3	2	2	1	1	0	00	00	000
40	11	9	8	7	6	5	5	4	4	3	2	2	1	1	0	00	00	000	000
45	10	9	7	6	6	5	4	4	3	3	2	1	1	0	00	00	000	000	0000
50	10	8	7	6	5	4	4	3	3	2	1	1	0	0	00	000	000	0000	0000
60	9	7	6	5	4	4	3	3	2	1	1	0	0	00	000	000	0000	0000	.....
70	8	7	5	4	4	3	2	2	1	1	0	00	00	000	000	0000	0000	.....	.....
80	8	6	5	4	3	2	2	1	1	0	00	00	000	000	0000	0000	.....	.....	.....
90	7	6	4	3	3	2	1	1	0	00	00	000	000	0000	0000	.....	.....	.....	.....
100	7	5	4	3	2	1	1	0	0	00	000	000	0000	0000	.....	.....	.....	.....	.....
120	6	4	3	2	1	1	0	0	00	00	000	0000	0000	.....	.....	.....	.....	.....	.....

Two Per Cent Loss on 220 Volts

Capacity Amperes	Distance in Feet to Center of Distribution																		
	20	30	40	50	60	70	80	90	100	120	140	160	180	200	240	250	320	360	400
1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	16
1.5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	16	15	15
2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	16	15	15	14	14
3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	16	15	15	14	14
4	....	....	....	....	....	....	....	....	....	16	15	15	14	14	13	12	12	11	11
5	....	....	....	....	....	....	....	....	16	15	14	14	13	13	12	11	11	10	10
6	....	....	....	....	....	....	16	15	15	14	14	13	12	12	11	11	10	9	9
7	....	....	....	....	....	16	15	14	14	14	13	12	12	11	11	10	9	9	8
8	....	....	....	....	16	15	15	14	13	13	12	12	11	11	10	9	9	8	8
9	....	....	....	....	15	15	14	14	13	12	12	11	11	10	9	9	8	8	7
10	....	....	....	16	15	14	14	13	13	12	11	11	10	10	9	8	8	7	7
12	....	....	16	15	14	14	13	12	12	11	11	10	9	9	8	8	7	7	6
14	....	16	15	14	14	13	12	12	11	11	10	9	9	8	7	7	6	6	5
16	....	16	15	14	13	12	12	11	11	10	9	9	8	8	7	7	6	6	5
18	....	15	14	13	12	12	11	11	10	9	9	8	8	7	7	6	5	5	4
20	16	15	14	13	12	11	11	10	10	9	8	8	7	7	6	5	5	4	4
25	16	14	13	12	11	10	10	9	9	8	7	7	6	6	5	4	4	3	3
30	15	13	12	11	10	10	9	9	8	7	7	6	5	5	4	4	3	3	2
35	14	13	11	10	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1
40	14	12	11	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1	1
45	13	12	10	9	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0
50	13	11	10	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0	0
60	12	10	9	8	7	7	6	6	5	4	4	3	3	2	1	1	0	00	00
70	11	10	8	7	7	6	5	5	4	4	3	2	2	1	1	0	00	00	000
80	11	9	8	7	6	5	5	4	4	3	2	2	1	1	0	00	00	000	000
90	10	9	7	6	6	5	4	4	3	3	2	1	1	0	00	00	000	000	0000
100	10	8	7	6	5	4	4	3	3	2	1	1	0	0	00	000	000	0000	0000
120	9	7	6	5	4	4	3	3	2	1	1	0	0	00	000	000	0000	0000	.....

Wire sizes given are B. & S.

GRAPHICAL ELECTRICAL SYMBOLS FOR ARCHITECTURAL PLANS

GENERAL OUTLETS

Ceiling Wall

- Outlet.
- Blanked Outlet.
- Drop Cord.
- Electrical Outlet; for use only when circle used alone might be confused with columns, plumbing, symbols, etc.
- Fan Outlet.
- Junction Box.
- Lamp Holder.
- Lamp Holder with Pull Switch.
- Pull Switch.
- Outlet for Vapor Discharge Lamp.
- Exit Light Outlet.
- Clock Outlet. (Specify Voltage.)

CONVENIENCE OUTLETS

- Duplex Convenience Outlets.
- Convenience Outlet other than Duplex. 1=Single, 3=Triplex, etc.
- Weatherproof Convenience Outlet.
- Range Outlet.
- Switch and Convenience Outlet.
- Radio and Convenience Outlet.
- Special Purpose Outlet. (Des. in Spec.).
- Floor Outlet.

SWITCH OUTLETS

- Single Pole Switch.
- Double Pole Switch.
- Three Way Switch.
- Four Way Switch.
- Automatic Door Switch.
- Electrolier Switch.
- Key Operated Switch.
- Switch and Pilot Lamp.
- Circuit Breaker.
- Weatherproof Circuit Breaker.
- Momentary Contact Switch.
- Remote Control Switch.
- Weatherproof Switch.
- Fused Switch.
- Weatherproof Fused Switch.

SPECIAL OUTLETS

Any Standard Symbol as given above with the addition of a lower case subscript letter may be used to designate some special variation of Standard Equipment of particular interest in a specific set of Architectural Plans.

When used they must be listed in the Key of Symbols on each drawing and if necessary further described in the specifications.

PANELS, CIRCUITS, AND MISCELLANEOUS

- Lighting Panel.
- Power Panel.
- Branch Circuit; Concealed in Ceiling or Wall.
- Branch Circuit; Concealed in Floor.
- Branch Circuit; Exposed.
- Home Run to Panel Board. Indicate number of Circuits by number of arrows. Note: Any circuit without further designation indicates a two-wire circuit. For a greater number of wires indicate as follows: // (3 wires) /// (4 wires), etc.
- Feeders. Note: Use heavy lines and designate by number corresponding to listing in Feeder Schedule.
- Underfloor Duct and Junction Box. Triple System. Note: For double or single systems eliminate one or two lines. This symbol is equally adaptable to auxiliary system layouts.
- Generator.
- Motor.
- Instrument.
- Power Transformer. (Or draw to scale.)
- Controller.
- Isolating Switch.

AUXILIARY SYSTEMS

- Push Button.
- Buzzer.
- Bell.
- Annunciator.
- Outside Telephone.
- Interconnecting Telephone.
- Telephone Switchboard.
- Bell Ringing Transformer.
- Electric Door Opener.
- Fire Alarm Bell.
- Fire Alarm Station.
- City Fire Alarm Station.
- Fire Alarm Central Station.
- Automatic Fire Alarm Device.
- Watchman's Station.
- Watchman's Central Station.
- Horn.
- Nurse's Signal Plug.
- Maid's Signal Plug.
- Radio Outlet.
- Signal Central Station.
- Interconnection Box.
- Battery.
- Auxiliary System Circuits. Note: Any line without further designation indicates a 2-Wire System. For a greater number of wires designate with numerals in manner similar to —.—12-No. 18W-¾" C., or designate by number corresponding to listing in Schedule.
- Special Auxiliary Outlets. Subscription letters refer to notes on plans or detailed description in specifications.

(Symbols in accordance with American Standards Association Standard ASA Z32.9-1943.)

INDEX

A

Page

A-A Metal Shades 475
Ackerman-Johnson Anchors, Screw 368
Bolts, Expansion 368
Acorn Receptacles, Flush 176
Switches, Toggle 193, 195
Adaptabels, Edwards 343
Adapter Straps, Socket, Benjamin 473
Adapters, Box Connector, Jake 16
Conduit, Appleton 9
Condulet, Obround 82
Duct, Nepcoduct 112
Insulating, P&S-Despard 208
Plug, Hubbell 171
Plug, Polarized, Hubbell 178
Range Receptacle, Hubbell 171
Receptacle, Hubbell 186
Socket, P&S 203
Adjustable Lamps, Dazor 490, 491
Lamps, Fostoria 492
Lighting Brackets, D-I-P 497
Lighting Fixtures 493
Lighting Fixtures, White 494–496
Lighting Units, Swivelier 485–488
Air Circulators, G-E 326
Circulators, Fresh'nd-Aire 327
Horns, Federal 339
Reels, Appleton 324
Whistles, Federal 337
Aisle Lights, Day-Brite 451
Alabax Lighting Fixtures 479–481
Alarm Devices, Burglar, Edwards 353
Matting, Floor 353
Systems, Burglar, Fotolectric, Worner 356
Systems, Fire, Edwards 354
Aluminum Sockets, Hubbell 168
American Beauty Heater Cord 147
Irons, Soldering 317
Ammeters, Switchboard, Weston 288, 289
Amplifiers, Electronic, Worner 357
Anchors, Screw, Ackerman-Johnson 368
Screw, Rawlplug 369
Announcers, Photolectric, Worner 357
Annunciators, Edwards 345
Hospital, Edwards 347
Nurses Station, Edwards 347
Annunciettes, Edwards 345
Apartment House Telephones, Edwards 352
Appleton Adapters, Conduit 9
Bar Sets 45
Benders, E.M.T. 7, 393
Blanks, Snap-In 50
Blocks, Connection 78
Bondnuts 12
Boxes, Ceiling 42
Boxes, Combination 42, 43

Page

Appleton Boxes, Conduit 44
Boxes, Door Switch 50
Boxes, Gang 50
Boxes, Handy 44, 45
Boxes, Outlet 39–43
Boxes, Pull 54, 55
Boxes, Switch 47–50
Boxes, Switch, Gang 51
Bushings, Conduit 12, 13
Bushings, End 12, 13
Bushings, Snap-In 50
Clamp Backs 33
Clamps, Cable 30, 158
Clamps, Conduit 33, 78
Clamps, Conduit, Guy Wire 46
Clamps, E.M.T. 8
Clamps, Ground 36
Clips, Cable 33
Connectors, Box 17, 25–28
Connectors, Cable 29, 30, 74
Connectors, Conduit 8, 18
Connectors, Meter 17
Connectors, Reducing 17
Connectors, Watertight 8
Couplings, Combination 9, 18
Couplings, Conduit 8, 18
Couplings, Flexible, Explosion-Proof 76
Couplings, Watertight 8
Covers, Conduit Box 44
Covers, Fixture Hanger 46
Covers, Handy Box 44, 45
Covers, Switch Box 51
Elbows, Conduit 16
Elbows, Entrance 9
Elbows, Pulling 17
Ells, Entrance 9, 20
Enlargers, Conduit 15
Extensions, Fixture 22
Fittings, Conduit 8, 9, 11–20, 33, 78
Fittings, E.M.T. 8, 9
Fittings, End 9, 18
Fittings, Entrance 9, 19, 20, 28, 30
Fittings, Ground 36
Fixtures, Lighting, Explosion-Proof 414
Hangers, Bar 46, 47
Hangers, Fixture 413
Hickeys, Bending 7, 393
Hickeys, Fixture 22
Hooks, Fixture 78
Lighting Units, Fluorescent 414
Locknuts, Conduit 12
Loops, Fixture 78
Nipples, Conduit 11, 14
Plugs, Circuit-Breaking 74
Plates, Sill 30
Receptacles, Circuit-Breaking 74
Receptacles, Outdoor 78
Receptacles, Plug 74
Receptacles, Sealed Safety 77
Reducers, Conduit 15
Reelites, Constant Duty 321–322
Reelites, Portable 320, 321

Page

Appleton Reelites, Power 323
Reels, Air 324
Reels, Air Hose 324
Reels, Grounding 325
Reels, Retract-O 323
Staples, Cable 33
Stems, Fixture 22
Straps, Cable 33
Straps, Pipe 33
Supports, Box, Guy Wire 46
Switches, Outdoor 78
Switches, Sealed Safety 77
Tools, Indenter 8
Tools, Utility 7
Unilets, Explosion-Proof 77
Appliance Lamps, Home, G-E 520
Switches, Cutler-Hammer 231
Armature Gauges, Air Cap, Ideal 376
Holders, Ideal 376
Armor Cutters, Ideal 379
Armored Cable, Paranite 23, 24
Arms, Extension, Levolier 226
Flexible 493
Armstrong Cutters, Pipe 391
Oil, Pipe Cutting 389
Stands, Vise 389
Stocks and Dies 387–389
Vises, Pipe 388, 390
Arrow Switches, Door 215
Switches, Heater 215
Switches, Momentary Contact 214, 215
Switches, Push 214, 215
Switches, Snap 216
Switches, Tumbler, Flush 215
Art Metal Ceiling Lights 401
Exit Lights 451
Germicidal Units 489
Hangers, Fixture 401
Lighting Fixtures 400
Atlite Exit Lights 450
Directional Signs 449, 450
Lighting Units 449
Attachment Plug Caps, Hubbell 171, 172
Plug Caps, P&S-Despard 208
Plug Caps, Rodale 223
Plug Caps, Spring-Action 220
Plug Receptacles, Appleton 67
Plugs, Benjamin 220
Plugs, Cartridge Fuse, Hubbell 172
Plugs, Hubbell 171, 172
Plugs, Polarized, Hubbell 180
Attachments, Pull Socket, Hubbell 169
Auger Bits, Greenlee 383, 384
Auto Fuses, Buss 245, 246
Transformers, Jefferson 292

B

B & D Drills, Portable 372, 373
Grinders, Bench 373
Hammer Tools 373

Page

B & D Hammers, Electric..... 373
B-M Connectors, E.M.T..... 7
Couplings, E.M.T. 7
Badger Time Switches..... 269
Bags, Tool, Klein..... 381
Baking Equipment, Infrared, Fostoria 314
Ball Globes, Exit, Kopp..... 451
Globes, Macbeth 476
Ballasts, Fluorescent Lamp, Chicago 531
Fluorescent Lamp, Jefferson 530
Bar Hangers, Appleton.....46, 47
Hangers, Raco 38
Sets, Appleton 45
Bases, Cutout, Fuse, Shawmut 239
Socket, Hubbell 165
Batteries, Dry, Eveready..... 534
Flashlight, Eveready 534
Hot Shot, Eveready..... 534
Lantern, Eveready 534
Radio, Eveready 534, 535
Battery Clips, Universal..... 148
Bell Pull Switch, Edwards..... 347
Pushes, P&S-Despard 209
Ringing Transformers, Edwards 351
Bells, Burglar Alarm, Edwards 342
Dixie, Edwards 342
Door, Edwards 341, 342
Economy, Edwards 343
Fire Alarm, Edwards..... 343
Flush, Edwards 341
Lungen, Edwards 342
Monitor, Edwards 342
Nubel, Edwards 342
Signaling System, Edwards.. 343
Single Stroke, Edwards..... 343
Single Stroke, Federal..... 343
Vibrating, Edwards 343
Vibrating, Federal 343
Bench Grinders, B & D..... 373
Grinders, Diehl 374
Lamps, Fostoria 492
Lights, Adjustable 493
Sockets, Benjamin 474
Benders, Bus-Bar, Greenlee.... 391
Conduit, Appleton 393
Conduit, Greenlee 391, 392
Conduit, Latrobe 393
Electrical Metallic Tubing..7, 393
Tube, Hossfeld 6
Benjamin Cord Grips, Strain Relief 471
Covers, Outlet Box..... 457
Diffusers, Glassteel 361
Diffusers, Glassteel, Turnlox 453
Diffusers, Mercury Lamp .. 466
Diffusers, Silvered Bowl Lamp 455
Fixtures, Column-Lite 468
Fixtures, Dust-Tight 465
Fixtures, Mercury-Incandescent Lamp 467
Fixtures, Mercury Lamp 466
Fixtures, Moisture-proof 465
Fixtures, Pit Lighting 468
Fixtures, Reflector 460, 462, 463
Fixtures, Tunnel Lighting .. 468
Fixtures, Vapor-Seal 464
Fixtures, Vaportight 464
Floodlighting Projectors 509
Floodlights 508, 509
Floodlights, Alzo-Lite ..507, 508
Floodlights, Duo-Service 506
Floodlights, Play-Area 507

Page

Benjamin Fluorescent Lamp Units 417–422
Guards, Fixture 469
Guards, Reflector 469
Holders, Reflector 461, 474
Hoods, Reflector 455
Howlers, Industrial 340
Lampholders, Reflector 455
Lighting Equipment, Type RR 458, 459
Lighting Units, Fluorescent 417–422
Lighting Units, Steelite..... 467
Louver Systems, Skyglo 423, 424
Outlet Box Fittings..... 474
Parabolite 457
Plugs, Attachment 220
Reflector and Bracket 462
Reflector Covers, Glass 469
Reflector Fittings, Type X.. 473
Reflector Fixtures, 1800 Series 460
Reflectors, High Bay 464
Reflectors, RLM 453–461
Reflectors, Sewing Machine 475
Reflectors, Shade Holder 461
Reflectors, Shallow Dome .. 475
Reflectors, Sign 363
Reflectors, Socket 456, 457
Reflectors, Stock-Bin-Lite .. 462
Reflectors, Turnlox 453, 454
Reflectors, Type RR 458, 459
Relays, Telecode 358
Socket Extensions 220, 221
Socket Reducers 219
Sockets, 1800 Series 474
Sockets, Mogul 474
Sockets, Mogul Base 472
Sockets, Reflector Fixture 470, 471
Sockets, Self-Locking 472
Sockets, Shock-Absorbing 470–472
Sockets, Weatherproof 474
Betts & Betts Flashers, Sign.... 233
Bit Extensions, Greenlee..... 384
Holders, Extension, Mephisto 384
Bits, Auger, Greenlee.....383, 384
Blades, Hack Saw..... 384
Blake Insulated Staples..... 364
Blank Plates, Hubbell..... 197
Blanks, Duct End, Nepcoduct.. 111
Snap-In, Appleton 50
Blocks, Connection, Appleton.. 78
Push Button, Edwards..... 350
Blo-Fan Ventilators, Pryne..... 333
Blow Torches, C & L..... 386
Bodies, Socket, Electrolier, Hubbell 165
Socket, Hubbell 165, 166
Socket, Porcelain, P&S 198
Switch, Pull, Hubbell..... 165
Bolts, Expansion, Ackerman-Johnson 368
Expansion, Diamond 367
Eye, Joslyn 360
Stove, Steel 364
Toggle, Star 366
Borderlights, Kliegl 498
Borers, Joist, Greenlee..... 383
Boring Machines, Hykon..... 383
Machines, Ideal 383
Box Connectors, Appleton 17, 25–28
Connectors, Loomwire, National 25

Page

Box Connectors, T & B.....31, 32
Covers, Metal, P&S-Despard 209
Covers, Outlet, Appleton ..39–41
Covers, Outlet, Benjamin 457
Covers, Outlet, Raco 38
Fittings, Outlet, Benjamin.... 474
Receptacles, Outlet, Hubbell 166
Supports, Guy Wire, Appleton 46
Boxes, Cast Iron, T & B..... 55
Ceiling, Appleton 42
Combination, Appleton 42, 43
Concrete, Raco 38
Conduit, Appleton 44
Cutout, Isert 52
Distribution, Rusgreen 157
Door Switch, Appleton..... 50
Floor, R & S..... 57
Floor, T & B..... 56
Floor, Latrobe 56
Gang, Appleton 50
Handy, Appleton 44, 45
Junction, T & B..... 55
Junction, Nepcoduct 113
Junction, Surfex, P&S 198
Outlet, Appleton 39–43
Outlet, Raco 37, 38
Pull, Appleton 54, 55
Pull, Isert 53
Set-up, Raco 45
Splice, Killark 84
Switch, Appleton 47–51
Switch, Raco 38
Brackets, Adjustable, D-I-P..... 497
Bath, Virden 478
Machine Lighting, D-I-P..... 497
Wall, Alabax 479
Wall, Killark 84
Wire, National 361
Brass Wood Screws..... 365
Breakers, Circuit, Square D 260–262
Briegel Tools, E.M.T..... 8
Brush Seater, Ideal..... 376
Buchanan Caps, Splice..... 155
Connectors, Solderless 155
Lugs, Termend 155
Tools, Crimping 155
Building Cable, U.S.....137, 138
Wire, Aluminum, U.S. 139
Wire, Paranite 125–127
Wire, U.S. 137–139
Bull Dog Clips, Cable..... 32
Hangers, Conduit 33
Staples, Cable 32
Bulldog Bustribution Duct, Lo-X 121
Bustribution Duct, Plug-In .. 120
Insulator Supports 160
Panelboards, Distribution .. 281
Panelboards, Lighting ..276–280
Panels, Distribution 282
Supports, Cable 33
Switches, Enclosed 247–250
Switches, Safety 247–250
Trol-E-Duct 118, 119
Wire Grips 151
Bull's Eye Jewels, Hubbell..... 176
Burglar Alarm Bells, Edwards 342
Alarm Devices, Edwards 353
Alarm Systems, Fotolectric, Worner 356
Bus Bar Distribution Systems 116–122
Bus-Duct Cable, Paranite..... 135
Bushings, Bakelite, Union..... 14
Capped, Appleton 12

Page

Bushings, Conduit, Appleton..12, 13
End, Appleton 12, 13
End, Union 14
Insulated, TBF 13
Metallic, Insulated, T & B.... 14
Porcelain, Federal 159
Porcelain, Minerallac 34
Reducing, Jake 16
Snap-In, Appleton 50
Socket, Hubbell 169
Buss Fuse Links, Renewal..... 242
Fuses, Auto 245, 246
Fuses, Enclosed 241, 242
Fuses, Glass Tube 245, 246
Fuses, Link 245
Fuses, Midget 241
Fuses, Plug 243
Fuses, Radio 245, 246
Fuses, Tap 241
Fusetrons 243, 244
Fustats 243
Reducers, Fuse 240
Bustribution Duct,
Bulldog 120, 121
Buttons, Push, Edwards..... 348
Push, Elevator Call 347
Push, Entrance, Edwards .. 347
Push, Luminous, Nutone 526
Buzzers, Dixie, Edwards..... 342
Flush, Edwards 341
Lungen, Edwards 342
No-Contact, Edwards 342

C

C & E Connector Body, Cord.. 229
Guards, Lamp 229, 230
Handles, Socket 230
Lamps, Barrel Inspection .. 229
Lamps, Portable 229
Lamps, Vaporproof 229
Plugs, Rubber 229
Sockets, Rubber 230
Torches 386
Cabinets, Fuse, Square D..... 285
Steel, Isert 52–54
Cable, Apparatus, National..... 143
Armored, Paranite 23, 24
Asbestos, National 143
Building, U.S. 137, 138
Dreadnaught,
Paranite 129, 130, 132
Drop, Service, Paranite..... 134
Entrance, Service, Paranite 133
Heavy Duty, Paranite....129, 130
Hinge, National 144
Ignition, Oil Burner,
Paranite 128
Lead-Covered, Paranite..126, 127
Mining Machine, Paranite.... 132
Parkway, Crescent 141
Portable, U.S. 142
Power, Bus-Duct, Paranite.. 135
Sheathed, Non-Metallic,
National 24
Sheathed, Non-Metallic,
Paranite 128
Special, Crescent 141
Thermoplastic, Paranite 128
Thermostat, Crescent 147
Trench, Crescent 140
Varnished Cambric,
Crescent 141
Varnished Cambric,
National 143
Welder, Paranite 132
Welding Machine, Paranite.. 132

Page

Cable, Welding, U.S..... 141
Cable Clamps, Appleton..... 30
Clamps, Minerallac 34
Clips, Appleton 33
Connectors, Appleton .....
..... 25–27, 29, 30, 74
Connectors, Ever-Lok,
R & S..... 235
Connectors, Rusgreen 157
Connectors, Sherman 154
Connectors, T & B.....31, 32, 152
Cutters, Ideal 379
Grips, Kellems 396
Hangers, Minerallac 34
Pullers, Greenlee 395
Ripper, Ideal 379
Ripper, National 379
Sleeves, Rusgreen 157
Splicing Kit, Rusgreen..... 157
Staples, Appleton 33
Straps, Appleton 33
Straps, Messenger,
Minerallac 34
Strippers, Ideal 378
Supports, Bull Dog..... 33
Taps, T & B..... 152
Call Systems, Nurses',
Edwards 346, 347
Candelabra Receptacles,
Hubbell 168
Sockets, Hubbell 168
Canopy Switches, Leviton..... 219
Caps, Drive, Seyler..... 359
Entrance, Appleton 19, 28
Fusible, Hubbellock 191
Fusible, Twist-Lock,
Hubbell 188
Plug, Cord-Grip,
Hubbell 172, 178, 181
Plug, Hubbell 171, 172
Plug, P&S-Despard 208
Plug, Polarized,
Hubbell 178–181, 183
Plug, Rodale 223
Plug, Rubber, C & E..... 229
Plug, Rubber, ProTex 222
Plug, Rubber, Safeway 221
Plug, Spring-Action 220, 221
Plug, Twist-Lock,
Hubbell 185–188
Radio Outlet, Hubbell..... 176
Socket, Hubbell 165, 166
Socket, Porcelain, P&S 198
Splice, Buchanan 155
Carboloy Drills, Masonry..... 386
Carbon Lamps, Nalco..... 524
Cartridge Fuses, Buss..... 242
Cast Iron Boxes, T & B..... 55
Ceiling Boxes, Appleton..... 42
Holders, Art Metal 401
Holders, Virden 477
Lights, Art Metal..... 401
Receptacles, Hubbell 166
Saws, Rotary, Misener..... 385
Cells, Dry, Eveready..... 385
Cement, Commutator, Ideal..... 376
Chain, Socket, Hubbell..... 169
Chain Links, Socket, Hubbell.. 169
Tassels, Socket, Hubbell..... 169
Champion DeArment Pliers.... 379
Changers, Lamp, McGill..... 228
Channellock Pliers 379
Channels, Wiring, CurtiStrip.. 440
Chicago Fluorescent Lamp
Ballasts 531
Chime Transformers, Edwards 351
Transformers, NuTone 529
Chimes, Door, Edwards..... 526

Page

Chimes, Door, NuTone.....527–529
Chromalox Heaters, Blower
Type 335
Heaters, Immersion 316
Heaters, Strip 315
Heaters, Urn 316
Plates, Hot 316
Circline Lamps, G-E..... 521
Circuit Breakers, Square
D 260–262
Breaking Receptacles and
Plugs, Appleton 74
Circulators, Air, Fresh'nd-Aire 327
Air, G-E 32
Clamp Backs, Appleton..... 33
Clamps, Beam, TBF..... 35
Cable, Appleton 30, 158
Conduit, Appleton 8, 33, 78
Conduit, Guy Wire,
Appleton 46
Electrical Metallic Tubing,
Appleton 8
Fuse Clip, Ideal..... 240
Ground, Appleton 36
Ground, Sherman 37
Ground Wire, Seyler..... 359
Pipe, Minerallac 34
Cleaners, Hand Type, Ideal.... 319
Tank Type, Ideal..... 319
Cleats, Wire, Porcelain.....159, 160
Clip Clamps, Fuse, Ideal..... 240
Clips, Cable, Appleton..... 33
Cable, Bull Dog..... 32
Fuse, Shawmut 239
Fuse, Square D 240
Jiffy, Minerallac 34
Universal, Mueller 148
Clock Hanger Outlets, Hubbell 190
Hanger Outlets, P&S..... 206
Systems, Centrally-
Controlled, Edwards 355
Clocks, Tork 270
Cloth Tapes, Varnished..... 162
Coil Winders, Ideal..... 377
Coils, Heater, Cutler-Hammer 313
Color Wheels, Kliegl..... 500
Colored Lamps, G-E..... 520
Color-Lites, Permaflector 445
Commutator Cement, Ideal..... 376
Resurfacers, Ideal 374, 375
Tools, Ideal 375, 376
Undercutters, Ideal 375
Compound, Insulating 164
Splicing, P.R. 164
Concrete Boxes, Raco..... 38
Conduit, Lighting, Easy-To-
Install 447
Non-Metallic, Flextube 22
Steel, Flexible, Paranite 22
Steel, Rigid 10
Thin-Wall 6
Conduit Adapters, Appleton.... 9
Benders, Appleton 393
Benders, Greenlee 391, 393
Benders, Latrobe 393
Box Hangers, TBF..... 35
Box Receptacles,
Hubbell 177, 180
Boxes, Appleton 44
Bushings, Appleton 12, 13
Bushings, Insulated. T & B 14
Bushings, TBF 13
Bushings, Union 14
Clamps, Appleton 8, 33, 78
Clamps, Guy Wire,
Appleton 46
Clamps, Minerallac 34

Page

Conduit Connectors, Appleton 8, 17, 18, 25–27
Connectors, T & B.....31, 32
Couplings, Appleton 8, 9, 18
Couplings, Fretz-Moon 10
Couplings, National 10
Couplings, T & B..... 15
Elbows 11
Elbows, Appleton 16, 17
Elbows, Fretz-Moon 10
Elbows, National 10
Enlargers, Appleton 15
Fittings, Appleton 8, 9, 11–20, 33
Fittings, REA, Appleton 78
Fittings, T & B..... 15
Hangers, Bull Dog 33
Hangers, Minerallac 34
Locknuts, Appleton 12
Nipples, Appleton 11, 14
Reducers, Appleton 15
Reducers, Nepcoduct 112
Running Thread 14
Supports, Korns 35

Condulet Adapters, Obround..... 82
Covers, Obround Series.....81, 82
Gaskets, Obround 82
Receptacles, Obround 82
Receptacles, Plug, Obround 82
Rosettes, Cord, Obround..... 82
Condulets, Obround Series 79–81
Type A 79
Type B 79
Type C 79
Type E 80
Type F 79
Type L 80
Type LB 80
Type LBD 82
Type LF 80
Type LL 80
Type LR 80
Type T 80
Type TB 80
Type X 81

Connector Adapters, Jake..... 16
Body, Cord, C & E..... 229
Extensions, T & B..... 15

Connectors, Box, Appleton 17, 25–28
Box, T & B.....31, 32
Cable, Appleton 29, 30, 74
Cable, Gorilla Grip 156
Cable, Rusgreen 157
Cable, Sherman 154
Cable, T & B.....31, 32, 152
Conduit, Appleton 8, 18
Conduit, T & B.....31, 32
Cord, Ever-Lok, R & S..234, 237
Cord, Hubbell 173, 174
Cord, Hubbellock 191, 192
Cord, Polarized, Hubbell 178, 181, 182
Cord, Rubber, Safeway 221
Cord, Twist-Lock, Hubbell 184–188
Electrical Metallic Tubing, B-M 7
Explosion-Proof, Killark 90
Fixture, Sherman 154
Fusible, Ever-Lok, R & S.... 235
Lock-Tite, T & B..... 152
Loomwire, National 25
Meter, Appleton 17
Nepcoduct 111
Reducing, Appleton 17
Screw, Sherman 154

Page

Connectors, Service- Penn-Union 155
Solderless, Buchanan 155
Solderless, Sherman 154
Solderless, T & B..... 152
Sta-Kon, T & B..... 150
Watertight, Appleton 8
Wire, Ideal 153
Wire, Marr 153
Wire, Sherman 154
Wire, T & B..... 151
Wire, Wedge-Grip 154

Constant Ringing Drops, Edwards 353

Contactors, Burglar Alarm, Edwards 353
Magnetic, Cutler-Hammer .. 308
Magnetic, Square D 296
Mechanically-Held, Square D 297

Control Transformers, Dongan 290
Transformers, Jefferson 291

Convenience Outlet and Pilot Light, Hubbell 190
Outlet and Switch, Hubbell 174, 190
Outlet Plates, Hubbell 197
Outlet Plates, P & S..... 212
Outlets, Hubbell 175, 176, 190, 196
Outlets, P&S 203, 204
Outlets, P&S-Despard 208
Outlets, Rodale 223
Outlets, Surfex, P&S 198
Outlets, Twist-Tite, Hubbell 174, 175

Copperweld Ground Rods, Seyler 359

Cord, Dreadnaught, Paranite.. 130
Flexible, Paranite 134–136
Heater, American Beauty .. 147
Heater, Paranite 135
Household, Paranite 135
Lamp, Paranite 136
Lamp, Reinforced 135
Plastic, Paranite 136
Portable, U.S. 141, 142
Reinforced, Paranite 135
Rubber, Paranite 136
Socket, Hubbell 169
Types S-SJ, Paranite..... 130
Vulcan, Paranite 134, 135

Cord Connector Body, C & E.. 229
Connectors, Ever-Lok, R & S.....234, 237
Connectors, Hubbell 173, 174
Connectors, Hubbellock 192
Connectors, Polarized. Hubbell 178, 181, 182
Connectors, Rubber, Safeway 221
Connectors, Twist-Lock, Hubbell 184–188
Extension Sets, C & E..... 229
Grips, Benjamin 471
Grips, Outlet Box Cover, Hubbell 169
Rosettes, Condulet, Obround 82
Rosettes, Unilet 67
Sets, Rodale 223
Switches, Hubbell 171

Cotton Tapes, G-E..... 162

Country Home Lamps, G-E.... 520

Couplings, Combination, Appleton 9, 18
Conduit, Appleton 8, 18
Conduit, Fretz-Moon 10

Page

Couplings, Conduit, National.. 10
Conduit, T & B..... 15
Electrical Metallic Tubing, B-M 7
Explosion-Proof, Appleton .. 76
Flexible, Appleton 76
Nepcoduct 111
Watertight, Appleton 8

Covers, Conduit Box, Appleton 44
Condulet, Obround Series..81, 82
Fixture Hanger, Appleton.... 46
Glass, Reflector, Benjamin.. 469
Handy Box, Appleton.....44, 45
Metal Box, P&S-Despard..... 209
Outlet Box, Appleton 39–41
Outlet Box, Benjamin 457
Outlet Box, Raco 38
Rubber, Seal-tite, Hubbell.... 190
Switch Box, Appleton..... 51
Unilet, FD-FS Series ..70, 71, 73
Unilet, Rectangular 65, 66
Unilet, Vaportight 71, 73

Crescent Cable, Parkway..... 141
Cable, Thermostat 147
Cable, Trench 140, 141
Cable, Varnished Cambric .. 141
Wire, Trench 140

Crouse-Hinds Condulets, Obround Series 79–82
Covers, Obround Series.....81, 82

Cube Taps, Spring-Action..... 221

Current Taps, Hubbell..... 171
Taps, Leviton 217
Taps, Rodale 223
Taps, Signal, Hubbell 170

Curtis Fixtures, Lighting..... 398
Hangers, Fixture 438
Lighting Units, Fluorescent 431–438
Lighting Units, Recessed..... 442
Lightstrip, Fluorescent 436
Luminaires 398
Punchy Unit 435
Reflectors, Industrial 441
Reflectors, Show Window 441, 442
Reflectors, X-Ray 441, 442
Supports, Fixture 438
Troffer Units 436

CurtiStrip 440
Fluorescent 437–439

Cutler-Hammer Coils, Heater.. 313
Contactors, Magnetic 308
Dimmers, Theater 313
Motor Control 306–310
Multi-Breakers 268, 269
Starters, Manual 309, 310
Starters, Motor 306–310
Stations, Push Button....310, 311
Switch and Starter Data..... 305
Switches, Appliance 231
Switches, Door 233
Switches, Float 311, 312
Switches, Limit 312
Switches, Momentary Contact 231
Switches, Mounting 231–233
Switches, Pressure 311
Switches, Push-Pull 232
Switches, Rotary 232
Switches, Safety 256–259
Switches, Service Control .. 263

Cutout Bases, Fuse, Shawmut.. 239
Boxes, Isert 52

Cutouts, Fuse, Plug.....240, 241

Cutters, Armor, Ideal..... 379
Cable, Ideal 379
Knockout, Greenlee 382

Page

Cutters, Milling, Commutator, Ideal ... 376
Pipe, Armstrong ... 391
Tube, B-M ... 8

D

Day-Brite Hangers, Fixture ... 413
Lighting Units, Fluorescent ... 408–412
Lights, Aisle ... 451
Lights, Signal ... 451
Signs, Exit ... 450
Daylight Lamps, G-E ... 519
Dazor Floating Lamps ... 490, 491
Decorative Lamps, G-E ... 520
Delta Electric Lanterns ... 532
Deltabeston Wire, Fixture ... 146
Demagnetizers, Ideal ... 377
Desk Fans, G-E ... 326
Fans, Hunter ... 328
Fans, Signal ... 330
Lamps, Adjustable, Dazor ... 490, 491
Lamps, Faries ... 483, 484
Lamps, Moe ... 482
Pushes, Edwards ... 350
Diamond Bolts, Expansion ... 367
Drill Holders ... 386
Drills ... 386
Shields, Expansion ... 367
Diehl Grinders, Bench ... 374
Diestocks, Armstrong ... 387–389
Diffusers, Glassteel, Benjamin 361
Glassteel, Mercury Lamp, Benjamin ... 466
Glassteel, Turnlox, Benjamin ... 453
Silvered Bowl Lamp, Benjamin ... 455
Dim-A-Lites ... 219
Dimmers, Kliegl ... 500
Theater, C-H ... 313
D-I-P Industrial Lighting Units ... 497
Disinfectaire Ultraviolet Germicidal Units ... 489
Distribution Panelboards, Bulldog ... 281
Panelboards, Square D ... 286
Panels, Bulldog ... 282
Systems, Power, Bulldog ... 118
Systems, Power, Feedrail ... 116, 117
Systems, Power, Square D ... 122
Dixie Floor Treads ... 350
Door Chimes, Edwards ... 526
Chimes, NuTone ... 527–529
Openers, Edwards ... 356
Springs, Burglar Alarm, Edwards ... 353
Switch Boxes, Appleton ... 50
Switches, Arrow ... 215
Switches, Cutler-Hammer ... 233
Switches, Hubbell ... 195, 196
Switches, P&S ... 206
Trips, Burglar Alarm, Edwards ... 353
Doorbell Transformers, Edwards ... 351
Doorbells, Edwards ... 342
Dongan Transformers ... 290
Drill Holders, Diamond ... 386
Holders, Rawl-Grip ... 370
Drills, Bell Hanger, Greenlee ... 384
Diamond ... 386

Page

Drills, Masonry, Carboloy ... 386
Portable, B & D ... 371–373
Rawl ... 370
Drive Caps, Seyler ... 359
Points, Seyler ... 359
Drops, Constant Ringing, Edwards ... 353
Dry Batteries, Eveready ... 534
Drying Equipment, Infrared, Fostoria ... 314
Units, Infra-Red, Nalco ... 525
Duct, Bustribution, Bulldog ... 120
Saflex, Square D ... 122
Screw Cover, Square D ... 115
Square D ... 115
Trol-E, Bulldog ... 118, 142
Duct Adapters, Nepcoduct ... 112
Fittings, Square D ... 114, 115
Systems, Underfloor, National ... 111–113
Dutch Brand Tapes ... 161, 162

E

Edwards Adaptabels ... 343
Alarm Devices, Burglar ... 353
Alarm Systems, Fire ... 354
Annunciators ... 345
Annunciators, Nurses' Station ... 347
Annunciettes ... 545
Bells, Burglar Alarm ... 342
Bells, Dixie ... 342
Bells, Door ... 342
Bells, Economy ... 343
Bells, Fire Alarm ... 343
Bells, Lungen ... 342
Bells, Monitor ... 342
Bells, Nubel ... 342
Bells, Signaling System ... 343
Bells, Single Stroke ... 343
Bells, Vibrating ... 343
Blocks, Push Button ... 350
Buzzers, Dixie ... 342
Buzzers, Flushcall ... 341
Buzzers, Lungen ... 342
Buzzers, No-Contact ... 342
Call Systems, Nurses' ... 346, 347
Chimes ... 526
Clock Systems, Centrally-Controlled ... 355
Contactors, Burglar Alarm ... 353
Door Bells ... 341, 342
Drops, Constant Ringing ... 353
Flushcall Devices ... 341
Horns ... 341
Howlers ... 341
Lokator Systems ... 344
Nurses' Call Systems ... 346, 347
Openers, Door ... 356
Panels, Push Button ... 351
Plates, Push Button ... 349
Plates, Switch Box ... 347
Push Buttons ... 348
Push Buttons, Elevator Call 347
Push Buttons, Entrance ... 347
Pushes, Card-Holder Type ... 349
Pushes, Desk ... 350
Pushes, Entrance ... 347, 349
Pushes, Floor ... 350
Pushes, Pear ... 348
Pushes, Return Call ... 348
Pushes, Screwless ... 349
Pushes, Watertight ... 348
Receptaplugs ... 350
Relays, Burglar Alarm ... 353
Springs, Burglar Alarm ... 353

Page

Edwards Stations, Emergency ... 354
Stations, Fire Alarm ... 354
Stations, Hospital ... 346
Switches, Bell Pull ... 347
Telephones, Apartment House ... 352
Transformers, Chime ... 351
Transformers, Doorbell ... 351
Transformers, Signaling ... 351
Treads, Floor ... 350
Elbows, Conduit ... 11
Conduit, Appleton ... 16
Conduit, Fretz-Moon ... 10
Conduit, National ... 10
Electrical Metallic Tubing ... 6
Entrance, Appleton ... 9
Entrance, Killark ... 21
Explosion-Proof, Killark ... 90
Nepcoduct ... 112
Pulling, Appleton ... 17
Electrical Metallic Tubing ... 6
Electricians' Bits, Greenlee ... 383
Knives, Klein ... 382
Electro Fluorescent Fixtures ... 403
Electrolier Socket Bodies, Hubbell ... 165
Socket Caps, Hubbell ... 165
Electronic Devices, Worner ... 356, 357
Electrunite Electrical Metallic Tubing ... 6
Ells, Entrance, Appleton ... 9, 20
Enclosed Fuse Cutout Bases, Shawmut ... 239
Fuses, Buss ... 241, 242
Switches, Bulldog ... 247–250
Enclosed Switches, Cutler-Hammer ... 256–259
Switches, Square D ... 250–256
End Bushings, Appleton ... 12, 13, 18
Bushings, Union ... 14
Fittings, Appleton ... 9
Enlargers, Conduit, Appleton ... 15
Entrance Cable, Service, Paranite ... 133
Fittings, Appleton ... 9, 19, 20, 28, 30
Fittings, Killark ... 21
Eveready Batteries, Dry ... 534
Batteries, Flashlight ... 534
Batteries, Hot Shot ... 534
Batteries, Lantern ... 534
Batteries, Radio ... 534, 535
Dry Cells ... 534
Flashlights ... 532, 533
Lamps, Flashlight ... 533
Lenses, Flashlight ... 534
Ever-Lok Connectors, R & S ... 234, 235, 237
Plugs, R & S ... 235, 237
Receptacles, R & S ... 234–237
Exhaust Fans, Hunter ... 329
Fans, Signal ... 331, 332
Exit Globes, Kopp ... 451
Lights, Art Metal ... 451
Lights, Atlite ... 450
Signs, Day-Brite ... 450
Expansive Bits, Greenlee ... 384
Bolts, Ackerman-Johnson ... 368
Bolts, Diamond ... 367
Shields, Diamond ... 367
Shields, Keystone ... 367
Explosion-Proof Couplings, Appleton ... 76
Fittings, Killark ... 87–90

Page

Explosion-Proof Lighting Fixtures, Fluorescent, Appleton ... 414
Unilets, SH Series ... 77
Extension Arms, Levolier ... 226
Rings, Raco ... 37
Extensions, Connector, T & B 15
Fixture, Appleton ... 22
Socket, Benjamin ... 220, 221
Eyebolts, Joslyn ... 360

F

Fan Hanger Outlets, Hubbell ... 177
Hanger Outlets, P&S ... 206
Shutters, Signal ... 332
Fans, Circulating, Fresh'nd-Aire ... 327
Desk, G-E ... 326
Desk, Hunter ... 328
Desk, Signal ... 330
Exhaust, Hunter ... 329
Exhaust, Signal ... 331, 332
Floor, Hunter ... 328
Pedestal, G-E ... 326
Pedestal, Signal ... 330
Vent, Signal ... 331, 332
Ventilating, Kitchen, G-E ... 334
Ventilating, NuTone ... 332
Ventilating, Ventrola ... 334
Faries Lamps, Desk ... 483, 484
Lamps, Floor ... 483, 484
Lamps, Pulpit ... 483
Reflectors, Picture ... 484
Reflectors, Showcase ... 484
Federal Air Whistles ... 337
Bells, Industrial ... 343
Bushings, Porcelain ... 159
Horns ... 339
Sirens ... 337
Sirens, Vehicle ... 338
Sockets, Porcelain ... 159
Feeder Duct, Saflex, Square D ... 122
Feedrail Distribution Systems ... 116, 117
Jacks, Plug-In ... 116
Tracks ... 116, 117
Trolleys ... 116, 117
Feed-Thru Switches, P&S ... 205
Switches, Rodale ... 223
Files, Slotting, Commutator, Ideal ... 375
Fire Alarm Bells, Edwards ... 343
Alarm Howlers, Benjamin ... 340
Alarm Systems, Edwards ... 354
Fish Tape Pullers, Klein ... 394
Tape Reels and Pullers, Ideal ... 394
Tape, Ideal ... 394
Wire, Keystone ... 394
Fittings, Conduit, Appleton ... 8, 9, 11–20, 33
Conduit, REA, Appleton ... 78
Conduit, T & B ... 15
CurtiStrip ... 440
Electrical Metallic Tubing, Appleton ... 8, 9
End, Appleton ... 18
Entrance, Appleton ... 9, 19, 20, 28, 30
Entrance, Killark ... 21
Explosion-Proof, Killark ... 87–90
Florduct, National ... 106, 107
Ground, Appleton ... 36
Light, Vaporproof, Killark ... 83–86

Page

Fittings, Metal Molding, National ... 96–99
Nepcoduct ... 111–113
Plug-In Strip, National ... 101–103
Raceway, Wiremold ... 91–95
Square-Duct ... 114
Surfaceduct, National ... 104, 105
Xtensionduct, National ... 100
Fixture Accessories, Unilet ... 78
Connectors, Sherman ... 154
Extensions, Appleton ... 22
Guards, Benjamin ... 469
Hanger Covers, Appleton ... 46
Hangers, Appleton ... 413
Hangers, Art Metal ... 401
Hangers, Curtis ... 438
Hangers, Day-Brite ... 414, 413
Hangers, Flexible, Killark ... 86
Hangers, Virden ... 477
Hickeys, Appleton ... 22
Holders, Art Metal ... 401
Holders, Virden ... 477, 478
Hooks, Appleton ... 78
Loops, Appleton ... 78
Receptacles, P&S ... 202
Sockets, McGill ... 225
Sockets, Reflector, Benjamin ... 470, 471
Stems, Appleton ... 22
Supports, Curtis ... 438
Wire, Deltabeston ... 146
Wire, National ... 145
Wire, Paranite ... 126
Fixtures, Adjustable, Fostoria 492
Adjustable, White ... 494–496
Air-Disinfecting, Guth ... 406
Bench, Adjustable ... 493
Bench, Fostoria ... 493
Ceiling, Art Metal ... 401
Column-Lite, Benjamin ... 468
Dust-Tight, Benjamin ... 465
Fluorescent, Benjamin ... 417–422
Fluorescent, Curtis ... 431–438
Fluorescent, Day-Brite ... 408–412
Fluorescent, Electro ... 403
Fluorescent, Explosion-Proof, Appleton ... 414
Fluorescent, Guth ... 405, 406
Fluorescent, Moe-Bridges ... 430, 431
Fluorescent, Philite ... 402
Fluorescent, Pittsburgh ... 425, 426
Fluorescent, Silv-A-King ... 415, 416
Fluorescent, Smithcraft ... 407
Fluorescent, Sylvania ... 427–430
Fluorescent, Virden ... 404
Germicidal, Guth ... 406
Germicidal Lamp, Disinfectaire ... 489
Heat-Lamp, Swivelier ... 489
Infrared, Fostoria ... 314
Lighting, Adjustable ... 493
Lighting, Alabax ... 479–481
Lighting, Art Metal ... 400
Lighting, Curtis ... 398
Lighting, Guth ... 399
Lighting, Moe ... 482
Lighting, Virden ... 477
Mercury-Incandescent Lamp, Benjamin ... 467
Mercury Lamp, Benjamin ... 466
Moisture-proof, Benjamin ... 465
Pit Lighting, Benjamin ... 468
Reflector, Benjamin ... 460, 462, 463

Page

Fixtures, Recessed, Atlite ... 449
Recessed, Kliegl ... 499
Recessed, Sylvania ... 428
Service Station, Benjamin ... 468
Spotlight, Sylvania ... 428
Strip Lighting, Sylvania ... 429
Sun-Lamp, Swivelier ... 489
Tunnel Lighting, Benjamin ... 468
Vapor-Seal, Benjamin ... 464
Vaporproof, Killark ... 83–86
Vaportight, Benjamin ... 464
Flashers, Sign, Betts & Betts ... 233
Flashlight Batteries, Eveready 534
Lamps, Eveready ... 533
Lenses, Eveready ... 534
Flashlights, Eveready ... 532, 533
Flashing Plugs, Betts & Betts ... 233
Flat Iron Heating Elements, Rodale ... 224
Flexible Arms ... 493
Cords, Paranite ... 134–136
Couplings, Appleton ... 76
Steel Conduit, Paranite ... 22
Flextube, National ... 22
Float Switches, Cutler-Hammer ... 311, 312
Switches, Square D ... 302
Floodlight Assemblies, Stonco ... 517, 518
Lamps, Sylvania ... 523
Poles, Revere ... 510–513
Floodlights, Benjamin ... 506–509
Kliegl ... 499
Silv-A-King ... 505
Steber ... 503, 504
Floodlighting Projectors, Benjamin ... 509
Units, Steber ... 502
Floor Boxes, Latrobe ... 56
Boxes, T & B ... 56
Duct Systems, Under, National ... 111–113
Fans, Hunter ... 328
Lamps, Faries ... 483, 484
Matting, Alarm ... 353
Outlets, Hubbell ... 177
Outlets, P&S ... 206
Pushes, Edwards ... 350
Receptacles, R & S ... 57
Treads, Dixie ... 350
Florduct, National ... 106
Florduct Fittings, National ... 106, 107
Fluorescent Bench Lamps, Fostoria ... 492
Curtistrip ... 437, 438
Curtistrip Parts ... 439
Fixture Hanger, Appleton ... 413
Fixtures, Benjamin ... 417–422
Fixtures, Electro ... 403
Fixtures, Explosion-Proof, Appleton ... 414
Fixtures, Moe ... 482
Fixtures, Moe-Bridges ... 430, 431
Fixtures, Smithcraft ... 407
Fixtures, Sylvania ... 427–430
Lamp Ballasts, Chicago ... 531
Lamp Ballasts, Jefferson ... 530
Lamp Starters, Hubbell ... 167
Lamp Starters, Sheldon ... 529
Lampholders, Hubbell ... 167
Lamps, Adjustable, Dazor ... 490, 491
Lamps, G-E ... 521
Lamps, Sylvania ... 523
Lighting Fixtures, Virden ... 404, 477
Lighting Units, Curtis ... 437, 438

Page

Fluorescent Lighting Units, Day-Brite 408–412
Lighting Units, Guth 405, 406
Lighting Units, Kirlin 448
Lighting Units, Philite 402
Lighting Units, Pittsburgh 425, 426
Lighting Units, Silv-A-King 415, 416
Lightstrip, Curtis 436
Luminaires, Curtis 431–436
Flushcall Devices, Edwards 341
Footlights, Kliegl 498
Fostoria Infrared Units 314
Localites 492
Fotolectric Burglar Alarm Systems, Worner 356
Fresh'nd-Aire Circulators, Air 327
Humidifiers 337
Fretz-Moon Rigid Conduit 10
Friction Tape, Dutch Brand 162
Tape, Manson 163
Tape, Plymouth 163
Fuse Cabinets, Square D 285
Clip Clamps, Ideal 240
Clips, Shawmut 239
Clips, Square D 240
Cutout Bases, Shawmut 239
Cutouts, Plug 240, 241
Links, Renewal, Buss 242
Puller and Test Light, Ideal 246
Pullers, Ideal 246
Reducers, Buss 240
Reducers, Ideal 240
Ribbon, Tested 244
Terminals, Shawmut 239
Wire, Tested 244
Fusible Plugs, Hubbell 171
Fuses, Auto, Buss 245, 246
Enclosed, Buss 241, 242
Glass Tube, Buss 245, 246
Link, Buss 245
Midget, Buss 241
Plug, Buss 243
Radio, Buss 245, 246
Tap, Buss 241
Fusetrons, Buss 243, 244
Fustats, Buss 243

G

G-E Circulators, Air 326
Fans, Desk 326
Fans, Pedestal 326
Fans, Ventilating, Kitchen 334
Tapes, Cotton 162
Tapes, Varnished 162
Wire, Deltabeston 146
Gang Switch Boxes, Appleton 50
Gauges, Armature Air Gap, Ideal 376
Gaskets, Condulet, Obround 82
Unilet, Rectangular 67
General Electric Lamps 519–521
Germicidal Lamp Fixtures, Guth 406
Units, Ultraviolet 489
Glass Covers, Reflector, Benjamin 469
Plates, Wall, Haring 214
Roundels, Permaflector 446
Tube Fuses, Buss 245, 246
Glassteel Diffusers, Benjamin 361
Diffusers, Mercury Lamp, Benjamin 466
Diffusers, Turnlox, Benjamin 453

Page

Glassware, Macbeth 478
Globes, Ball, Macbeth 476
Crystal Glass, Macbeth 478
Exit, Kopp 451
Fixture, Killark 84
Gorilla Grip Lugs, Terminal 156
Greenlee Benders, Bus-Bar 391
Benders, Conduit 391, 392
Bit Extensions 384
Bits, Auger 383, 384
Bits, Expansive 384
Borers, Joist 383
Cutters, Knockout 382
Drills, Bell Hanger 384
Knockout Tools 382
Pullers, Cable 395
Pump, Power 395
Punches, Knockout 382
Pushers, Pipe 394, 395
Grinders, Bench, B & D 373
Bench, Diehl 374
Precision, Ideal 375
Gripon Lamp Guards 226
Grips, Cable, Kellems 396
Wire, Bulldog 151
Ground Clamps, Appleton 36
Clamps, Sherman 37
Fittings, Appleton 36
Pipes, Seyler 359
Rods, Copperweld, Seyler 359
Rods, Seyler 359
Wire, Armored, Paranite 23
Wire Clamps, Seyler 359
Grounding Reels, Appleton 325
Wire, Appliance, National 145
Growlers, Armature, Ideal 375
Guards, Fixture, Benjamin 469
Fixture, Killark 84
Lamp, C & E 229, 230
Lamp, Gripon 226
Lamp, Loxon 226
Lamp, McGill 226–228
Reflector, Benjamin 469
Guth Fixtures, Air-Disinfecting 406
Fixtures, Germicidal 406
Lighting Fixtures 399
Lighting Units, Fluorescent 405, 406
Guy Hooks, Joslyn 360

H

Hack Saw Blades 384
Saws, Rotary, Misener 385
Half Shades, A-A 475
Hammer Tools, B & D 373
Hammers, Electric, B & D 373
Handles, Socket, Rubber, C & E 230
Handy Boxes, Appleton 45
Hanger Outlets, Clock Hubbell 190
Outlets, Fan, Hubbell 177
Hangers, Bar, Appleton 46, 47
Bar, Raco 38
Cable, Minerallac 34
Conduit Box, TBF 35
Conduit, Bulldog 33
Conduit, Minerallac 34
Fixture, Appleton 413
Fixture, Art Metal 401
Fixture, Curtis 438
Fixture, Day-Brite 413
Fixture, Killark 86
Fixture, Virden 477
Messenger Cable, Minerallac 34
Messenger, TBF 35

Page

Haring Plates, Mirror Glass 214
Heat Lamps, Nalco 525
Lamps, Swivelier 489
Heater Coils, Cutler-Hammer 313
Cord, American Beauty 147
Cord, Paranite 135
Elements, Rodale 224
Nozzle, Ideal 319
Plugs, Rodale 224
Switches, Arrow 215
Heaters, Blower Type, Chromalox 335
Immersion, Chromalox 316
Markel 336
Strip, Chromalox 315
Urn, Chromalox 316
Heating Elements, Rodale 224
Units, Infrared, Fostoria 314
Heetaires, Markel 336
Hewitt Solders 161
Hickey Fixture Stems, Appleton 22
Hickeys, Bending, Appleton 7, 393
Electrical Metallic Tubing, Republic 7
Fixture, Appleton 22
Lakin, T & B 393
Holders, Armature, Ideal 376
Bit, Extension, Mephisto 384
Ceiling, Art Metal 401
Drill, Diamond 386
Drill, Rawl 370
Fixture, Virden 477, 478
Lamp, Reflector, Benjamin 455
Reflector, Benjamin 461, 474
Shade, Arrow 214
Shade, Hubbell 169
Shade, P & S 203
Shade, Weatherproof, Arrow 214
Tube, Briegel 8
Hole Cutters, Greenlee 382
Home Appliance Lamps, G-E 520
Hoods, Reflector, Benjamin 455
Hooks, Fixture, Unilet 78
Guy, Joslyn 360
Horns, Edwards 341
Federal 339
Screech, Edwards 341
Hose Reels, Appleton 324
Hospital Signaling Equipment, Edwards 346, 347
Hossfeld Benders 6
Hot Shot Batteries 534
Howlers, Edwards 341
Industrial, Benjamin 340
Hubbell Adapters, Plug 171
Adapters, Plug, Polarized 179
Adapters, Range Receptacle 171
Adapters, Twist-Lock 186
Attachments, Socket, Pull 169
Bushings, Socket 169
Caps, Fusible, Twist-Lock 188
Caps, Plug 171, 172
Caps, Plug, Cord-Grip 172, 178, 181
Caps, Plug, Polarized 178–181, 183
Caps, Plug, Twist-Lock 185–188
Connector Bodies 173
Connectors, Cord 173, 174
Connectors, Cord, Polarized 178, 181, 182
Connectors, Cord, Twist-Lock 184–188
Cord Grips, Outlet Box Cover 169
Covers, Rubber, Seal-tite 180

Page

Hubbell Jewels, Bull's Eye..... 176
Lampholders, Fluorescent .. 167
Lampholders, Lumiline 167
Outlet and Switch, Convenience 174
Outlets, Clock Hanger 190
Outlets, Convenience 175, 176, 190, 196
Outlets, Convenience, Twist-Tite 174, 175
Outlets, Fan Hanger 177
Outlets, Floor 177
Outlets, Power 182
Outlets, Radio 176
Plates, Blank 197
Plates, Combination 197
Plates, Convenience Outlet 197
Plates, Switch, Push 197
Plates, Switch, Toggle 197
Plates, Telephone 197
Plugs, Attachment 171, 172
Plugs, Attachment, Cartridge Fuse 172
Plugs, Attachment, Polarized 180
Plugs, Fusible 171
Plugs, Motor 173, 174
Plugs, Motor, Polarized 179
Plugs, Motor, Twist-Lock 194, 186–188
Pull Switch Bodies..... 165
Receptacles, Acorn 176
Receptacles, Candelabra 168
Receptacles, Candelabra Base 176
Receptacles, Ceiling 166
Receptacles, Cleat 177
Receptacles, Cluster 174
Receptacles, Concealed 177
Receptacles, Conduit Box 177, 180, 187
Receptacles, Fielding 177
Receptacles, Flush 177–189
Receptacles, Intermediate Base 168
Receptacles, Moulding 177
Receptacles, Outdoor 177
Receptacles, Outlet Box 166, 177
Receptacles, Pilot Lamp 176
Receptacles, Plug, Weatherproof 177
Receptacles, Polarized 178–181, 183, 184
Receptacles, Porcelain 177, 178, 182, 187
Receptacles, Range 183, 184
Receptacles, Round Type .. 177
Receptacles, Sign 168
Receptacles, Twist-Lock 185–189
Receptacles, Wall 178
Reducers, Socket 169
Reflectors, Metal 475
Seal-Tite Devices 190
Shadeholders 169
Socket Bases 165
Socket Bodies 165, 166
Socket Bodies, Electrolier .. 165
Socket Caps 165, 166
Socket Caps, Electrolier 165
Socket Chain Links 169
Socket Chain Tassels 169
Socket Chains 169
Socket Cord 169
Sockets, Aluminum 168
Sockets, Assembled 165

Page

Hubbell Sockets, Attachment, Lamp Base 170
Sockets, Candelabra 168
Sockets, Rubber 168
Sockets, Te-Tap 170
Sockets, Wall, Pony 166
Sockets, Weatherproof 168
Starters, Fluorescent Lamp.. 167
Switch and Convenience Outlet 174, 190
Switch and Pilot Light 190
Switch, Receptacle and Outlet Combination 171
Switches, Acorn 193, 195
Switches, Appliance 193
Switches, Cord 171
Switches, Door 195, 196
Switches, Mercury 194
Switches, Outdoor 195
Switches, Pendent 171
Switches, Pull, Ceiling 196
Switches, Push Button 195
Switches, Snap, Surface 196
Switches, Toggle, Flush 193–196
Switches, Toggle, Surface.... 193
Switches, Weatherproof 195
Table Cone 170
Taps, Current 170, 171
Taps, Current, Signal 170
Taps, Table 171
Te-Taps 170
Twist-Lock Devices 184–189
Hubbellock Caps, Fusible..... 191
Connectors, Cord 191, 192
Plugs, Motor 191
Receptacles 191, 192
Humidifiers, Fresh'nd-Aire 337
Hunter Fans, Desk..... 328
Fans, Exhaust 329
Fans, Floor 328
Shutters, Automatic 329
Hykon Boring Machine..... 383

I

Ideal Boring Machine..... 383
Brush Seater 376
Cable Ripper 379
Cement, Commutator 376
Clamps, Fuse Clip..... 240
Cleaners, Hand Type..... 319
Connectors, Wire 153
Cutters, Armor 379
Cutters, Commutator Milling 376
Demagnetizers 377
Files, Slotting, Commutator 375
Gauges, Air Gap, Armature.. 376
Grinders, Precision 375
Growlers 375
Heater Nozzle 319
Holders, Armature 376
Insulation Formers 376
Pullers, Fuse 246
Reducers, Fuse 240
Reels, Fish Tape..... 394
Resurfacers, Commutator 374, 375
Saws, Commutator Slotting.. 376
Skinner and Straightener, Wire 378
Sprayer Attachment 319
Strippers, Wire 378, 379
Tachometer 377
Tapes, Fish 394
Test-Glo 246

Page

Ideal Test Light and Fuse Puller 246
Tester, Insulation 377
Tester, Voltage 246
Tools, Soldering 318
Undercutters, Commutator .. 375
Winders, Coil 377
Wire-Nuts 153
Ignition Cable, Oil Burner, Paranite 128
Immersion Heaters, Chromalox 316
Infra-Red Drying Units, Nalco 525
Ray Lamps, Nalco..... 525
Units, Fostoria 314
Indenters, Electrical Metallic Tubing, B-M 8
Instruments, Switchboard, Weston 288, 289
Testing, Minerallac 289
Insulated Bushings, Metallic, T & B..... 14
Staples, Blake 364
Insulator Supports, Bulldog.... 160
Insulation Formers, Ideal..... 376
Insulating Compounds 164
Liquids 164
Insulators, Clip, Mueller..... 148
Light and Power..... 363
Mine, Porcelain 363
Porcelain 363
Secondary Rack, National.... 361
Strain, Porcelain 364
Telephone 363
Insuliner Sleeves, T & B..... 14
Iron Wood Screws..... 365
Irons, Soldering, American Beauty 317
Isert Boxes, Cutout..... 52
Boxes, Pull 53
Cabinets, Steel 52, 54
Island Lights, Silv-A-King..... 505

J

Jacks, Plug-In, Feedrail..... 116
Jake Adapters, Connector..... 16
Bushings, Reducing 16
Jefferson Ballasts, Fluorescent Lamp 530
Transformers, Auto 292
Transformers, Control 291
Transformers, Double-Wound 292
Transformers, Mercury Lamp 291
Jewels, Bull's Eye, Hubbell.... 176
Jiffy Clips, Minerallac..... 34
Joints, Wire, Sta-Kon..... 153
Joist Borer, Greenlee..... 383
Joslyn Eyebolts 360
Hooks, Guy 360
Plates, Lift 360
Plates, Strain 360
Turnbuckles 360
Junction Boxes, Cast Iron, T & B..... 55
Boxes, Nepcoduct 113
Boxes, Surfex, P&S 198

K

Kellems Cable Grips..... 396
Keystone Expansion Shields.... 367
Fish Wire 394
Killark Boxes, Splice..... 84

Page

Killark Elbows, Explosion-Proof 90
Explosion-Proof Fittings 87–90
Fittings, Entrance 21
Fittings, Light, Vaporproof 83–86
Fittings, Sealing Compound 90
Hangers, Fixture 86
Reflectors, Fixture 85
Unions, Explosion-Proof 90
Kirlin Lighting Units 448
Kitchen Fixtures, Fluorescent, Moe 482
Units, Alabax 480, 481
Ventilating Fans, G-E 334
Ventilators, Pryne 333
Klein Bags, Tool 381
Knives, Electrician's 382
Knives, Skinning 382
Pliers 380
Pockets, Tool 381
Pouches, Rubber Glove 381
Pullers, Fish Tape 394
Tool Cases, Pocket 381
Kliegl Borderlights 498
Color Wheels 500
Dimmers 500
Downlights 498, 499
Fixtures, Recessed 499
Floodlights 499
Footlights 498
Lights, Picture 500
Pockets and Plugs, Stage 498
Spotlights 500
Knockout Box Connectors, Appleton 17
Cutters, Greenlee 382
Punches, Greenlee 382
Knives, Electrician's, Klein 382
Skinning, Klein 382
Kopp Exit Globes 451
Korns Supports, Conduit 35

L

Laboratory Hot Plates, Chromalox 316
Lakin Hickeys, T & B 393
Lamp Ballasts, Fluorescent, Chicago 531
Ballasts, Fluorescent, Jefferson 530
Changers, McGill 228
Cord, Paranite 136
Cord, Reinforced 135
Guard Sockets, McGill 228
Guards, C & E 229, 230
Guards, Gripon 226
Guards, Loxon 226
Guards, McGill 226–228
Receptacles, Condulet, Obround 82
Receptacles, Unilet 67
Starters, Fluorescent, Hubbell 167
Starters, Fluorescent, Sheldon 529
Lampholders, Fluorescent, Hubbell 167
Lumiline, Hubbell 167
Moe 482
Reflector, Benjamin 455
Silv-A-King 505
Steber 501
Lamps, Adjustable, Dazor 490, 491
Appliance, Home, G-E 520
Baking, Nalco 525

Page

Lamps, Barrel Inspection, C & E 229
Bed, Fluorescent, Moe 482
Carbon, Nalco 524
Circline, G-E 521
Colored, G-E 520
Country Home, G-E 520
Daylight, G-E 519
Decorative, G-E 520
Desk, Faries 483, 484
Desk, Moe 482
Extension, C & E 229
Flashlight, Eveready 533
Floodlight, Sylvania 523
Floor, Faries 483, 484
Fluorescent, G-E 521
Fluorescent, Sylvania 523
General Service, G-E 519
Heat, Swivelier 489
Infra-Red Ray, Nalco 525
Lumiline, G-E 520
Lumiline, Sylvania 522
Miniature, Carbon 524
Nite Lite, G-E 520
Pedestal, Dazor 491
Pilot Light, P&S-Despard 209
Portable, C & E 229
Portable, McGill 227, 228
Portable, Swivelier 487, 488
Projector, G-E 521
Pulpit, Faries 483
Radio Panel, Eveready 533
Reflector, G-E 521
Showcase, Sylvania 523
Sign, G-E 520
Sign, Sylvania 522
Silvered Bowl, G-E 520
Slimline, G-E 521
Spotlight, Sylvania 523
Sun, Swivelier 489
Sylvania 522, 523
Three-Lite, G-E 520
Train Lighting, Sylvania 523
Tubular, Sylvania 523
Vaporproof, C & E 229
Lantern Batteries, Eveready 534
Lanterns, Electric, Delta 532
Latrobe Conduit Bender 393
Floor Boxes 56
Lead Wire, Appliance, National 145
Lenses, Flashlight, Eveready 534
Leviton Receptacles, Flush 218
Receptacles, Outlet Box 217
Receptacles, Porcelain 217
Receptacles, Pull 217
Sockets 217, 218
Sockets, Weatherproof 218
Switch and Convenience Outlet, Pendant 219
Switch and Pilot Light 218
Switch and Receptacle 218
Switches, Canopy 219
Switches, Feed-Thru 219
Switches, Pendent 219
Switches, Push 218
Switches, Tumbler 218
Taps, Current 217
Levolier Extension Arms 226
Switches, McGill 225
Light Source Units, Worner 357
Strips, Stage, Kliegl 498
Lighting, Louverall, Benjamin 423, 424
Pit, Benjamin 468
Stage, Kliegl 498–500
Tunnel, Benjamin 468

Page

Lighting Conduit, Easy-To-Install 447
Equipment, Type RR, Benjamin 458, 459
Fixtures, Adjustable 493
Fixtures, Alabax 479-481
Fixtures, Art Metal 400
Fixtures, Curtis 398
Fixtures, Fluorescent, Smithcraft 407
Fixtures, Fluorescent, Virden 404
Fixtures, Fostoria 492
Fixtures, Guth 399
Fixtures, Moe 482
Fixtures, Spotlight, Sylvania 428
Fixtures, Strip, Sylvania 429
Fixtures, Vaporproof, Killark 83–86
Fixtures, Virden 477
Panelboards, Bulldog 276–280
Panelboards, Square D 283–285
Standards, Service Station, Revere 513–516
Units, Atlite 449
Units, Dust-Tight, Benjamin 465
Units, Fluorescent, Appleton 414
Units, Fluorescent, Benjamin 417–422
Units, Fluorescent, Curtis 431–438
Units, Fluorescent, Day-Brite 408–412
Units, Fluorescent, Electro 403
Units, Fluorescent, Guth 405, 406
Units, Fluorescent, Kirlin 448
Units, Fluorescent, Moe-Bridges 430, 431
Units, Fluorescent, Philite 402
Units, Fluorescent, Pittsburgh 425, 426
Units, Fluorescent, Silv-A-King 415, 416
Units, Fluorescent, Sylvania 427–430
Units, Mercury-Incandescent Lamp, Benjamin 467
Units, Mercury Lamp, Benjamin 466
Units, Moisture-Proof, Benjamin 465
Units, Punchy, Curtis 435
Units, Recessed, Curtis 436, 442
Units, Recessed, Kirlin 448
Units, Steber 501
Units, Steelite, Benjamin 467
Units, Swivelier 485–488
Units, Vapor-Seal, Benjamin 464
Units, Vaportight, Benjamin 464
Lights, Adjustable, Swivelier 485–488
Aisle, Day-Brite 451
Exit, Art Metal 451
Exit, Artlite 450
Island, Silv-A-King 505
Night, P&S-Despard 209
Pilot, P&S-Despard 209
Portable, D-I-P 497
Service, Steber 501
Signal, Day-Brite 451

Page

Lightstrip Units, Curtis 436
Limit Switches, Cutler-Hammer 312
Switches, Micro 275
Switches, Square D 303, 304
Linemen's Tool Bags, Klein 381
Tool Pockets, Klein 381
Tools, Klein 380
Link Fuses, Buss 245
Links, Chain, Socket, Hubbell 169
Fuse, Renewal, Buss 242
Load Centers, Square D 264–267
Localites, Fostoria 492
Lock Switches, Burglar Alarm, Edwards 353
Locknuts, Conduit, Appleton 12
Lokator Systems, Edwards 344
Loom, National 22
Loomwire, National 24
Loops, Fixture, Unilet 78
Louver Lighting System, Benjamin 423, 424
Louvers, Permaflector 446
Loxon Lamp Guards 226
Lugs, Lock-Tite, T & B 152
Soldering, Rusgreen 157
Soldering, Sherman 149
Solderless, T & B 152
Termend, Buchanan 155
Terminal, Gorilla Grip 156
Wedge-On, T & B 148
Wire, Shawmut 239
Lumiline Lampholders, Hubbell 167
Lamps, G-E 520
Lamps, Sylvania 522
Luminaires, Curtis 398
Guth 399
Lungen Bells, Edwards 342
Buzzers, Edwards 342

M

McGill Changers, Lamp 228
Extension Arms, Levolier 226
Guards, Lamp 226–228
Paste, Soldering 161
Sockets, Fixture 225
Sockets, Lamp Guard 228
Switches, Levolier 225
Macbeth Glassware 476, 478
Machine Reflectors, Sewing, Benjamin 475
Screws 366
Screw Nuts 366
Tool Wire, Paranite 128
Machines, Boring, Hykon 383
Boring, Ideal 383
Magnifiers, Dazor 491
Mandrel Springs 7
Manson Friction Tape 163
Manual Starters, Cutler-Hammer 309, 310
Starters, Square D 294
Markel Heaters 336
Mark-Time Meters, Coin 273
Switches 273
Marr Connectors, Wire 153
Matting, Floor, Alarm 353
Mephisto Holders, Extension Bit 384
Mercury-Incandescent Lamp Units, Benjamin 467
Mercury Switches, Flush, Hubbell 194
Switches, Mark-Time 273

Page

Mercury Lamp Transformers, Jefferson 291
Lamp Units, Benjamin 466, 467
Messenger Cable Hangers, Minerallac 34
Hangers, TBF 35
Straps, Minerallac 34
Metal Molding Fittings, National 96–99
Molding, National 96
Shades, A-A 475
Metallic Tubing, Electrical 6
Meter Connectors, Appleton 17
Switches, Cutler-Hammer 263
Meters, Coin, Mark-Time 273
Micro Switches, Precision 274, 275
Midget Fuses, Buss 241
Mine Insulators, Porcelain 363
Type Howlers, Benjamin 340
Minerallac Bushings, Porcelain 34
Clips, Jiffy 34
Compounds, Insulating 164
Hangers, Cable 34
Hangers, Conduit 34
Hangers, Messenger Cable 34
Statiscope 289
Straps, Messenger Cable 34
Miniature Lamps, Carbon 524
Mining Machine Cable, Paranite 132
Misener Hack Saws, Rotary 385
Moe Fixtures, Lighting 482
Lampholders 482
Lamps, Desk 482
Lamps, Portable 482
Moe-Bridges Fluorescent Fixtures 430, 431
Mogul Base Sockets, Benjamin 472
Receptacles, P&S 203
Sockets, Benjamin 474
Sockets, P&S 202
Molding, Metal, National 96
Wiremold 91–95
Monitor Bells, Edwards 342
Motor Control, Cutler-Hammer 306–310
Control, Square D 294–301
Maintenance Products, Ideal 374–376
Plugs, Hubbell 173, 174
Plugs, Hubbellock 191
Plugs, Polarized, Hubbell 179
Plugs, Twist-Lock, Hubbell 184, 186–188
Starter Data, Cutler-Hammer 305
Starters, Cutler-Hammer 306–310
Starters, Square D 294–301
Motors, Sterling 293
Moulding Receptacles, Hubbell 177
Mueller Universal Clips 148
Multi-Breakers, Cutler-Hammer 268, 269
Square D 264–267

N

Nalco Carbon Lamps 524
Drying Units, Infra-Red 525
Lamps, Infra-Red Ray 525
National Brackets, Wire 361
Cable, Apparatus 143
Cable, Asbestos 143
Cable, Hinge 144

Page

National Cable, Sheathed, Non-Metallic 24
Cable, Varnished Cambric 143
Conduit, Rigid Steel 10
Connectors, Loomwire 25
Couplings, Conduit 10
Elbows, Conduit 10
Fittings, Plug-In Strip 101–103
Flextube 22
Florduct and Fittings 106, 107
4-By-4 Wirewa 108–110
Loomwire 24
Lopo-Trim 102
Metal Molding and Fittings 96–99
Racks, Secondary 361
Rippers, Cable 379
Strip, Plug-In 101
Surfaceduct and Fittings 104, 105
Terminal Units, Gorilla Grip 156
Wire, Asbestos 143, 144
Wire, Boiler Room 143
Wire, Building 136, 137
Wire, Fixture 145
Wire, Grounding, Appliance 145
Wire, Heat-Resisting 145
Wire, Lead, Appliance 145
Wire, Stove 145
Wire, Switchboard 144
Wireholders 361
Xtensionduct and Fittings 100
Neon Sign Wire, Paranite 128
Nepcoduct Underfloor Wiring System 111–113
Nichrome Wire, Rodale 209
Night Lights, P&S-Despard 209
Nipples, Conduit, Appleton 11, 14
Nite Lite Lamps, G-E 520
Nokorode Core Solder 161
Fluid, Soldering 161
Paste, Soldering 161
Salts, Soldering 161
Non-Metallic Sheathed Cable, National 24
Sheathed Cable, Paranite 128
Northern Picture Lights 484
Nurses' Call Systems, Edwards 346, 347
NuTone Chimes, Door 527–529
Push Buttons, Luminous 526
Transformers, Chime 529
Nuts, Machine Screw 366
Wire, Ideal 153

O

Offsets, Nepcoduct 112
Oil, Pipe Cutting, Armstrong 389
Oil Burner Cable, Ignition, Paranite 128
Okonite Rubber Tape 163
Openers, Door, Edwards 356
Outdoor Receptacles, Weatherproof, Hubbell 177
Outlet and Pilot Light, Convenience, Hubbell 190
and Switch, Convenience, Hubbell 174, 190
Outlet Box Cover Assemblies, Permaflector 447
Box Covers, Appleton 39–41
Box Covers, Benjamin 457
Box Covers, Raco 38
Box Fittings, Benjamin 474

Page

Outlet Box Receptacles, Hubbell 166, 177
Box Receptacles, Leviton .. 217
Box Receptacles, P&S 200
Box Receptacles, Woodhead 222
Boxes, Appleton 39–43
Boxes, Raco 37, 38
Plugs, Nepcoduct 112
Outlets, Clock Hanger, Hubbell 190
Clock Hanger, P&S..... 206
Convenience, Hubbell 175, 176, 190, 196
Convenience, P&S 203, 204
Convenience, P&S-Despard 208
Convenience, Rodale 223
Convenience, Surfex, P&S .. 198
Convenience, Twist-Tite, Hubbell 174, 175
Duct End, Nepcoduct..... 111
Fan Hanger, Hubbell 177
Fan Hanger, P&S 206
Floor, Hubbell 177
Floor, Latrobe 56
Floor, P & S..... 206
Floor, R & S..... 57
Power, Hubbell 182
Radio, Hubbell 176
Radio, P&S-Despard 208

P

PP Secondary Racks..... 362
P.R. Splicing Compound..... 164
P & S Adapters, Socket..... 203
Boxes, Junction, Surfex..... 198
Cablettes 201
Door Switches 206
Outlets, Clock Hanger 206
Outlets, Convenience 203, 204
Outlets, Convenience, Surfex 198
Outlets, Fan Hanger 206
Outlets, Floor 206
Plates, Blank 212
Plates, Brown-X 212
Plates, Chrome-X 212
Plates, Combination 213
Plates, Convenience Outlet 212
Plates, Ivory-X 211, 212
Plates, Metal 212
Plates, Switch 212
Plates, Telephone 212
Plates, Wall 212
Receptacles, Cleat 201
Receptacles, Fixture 202
Receptacles, Mogul 203
Receptacles, Outlet Box 200
Receptacles, Porcelain 200, 201, 203
Receptacles, Pull Chain 201
Receptacles, Screw Ring 202
Receptacles, Sign 202
Receptacles, Surfex 198
Receptacles, Weatherproof .. 206
Rosettes, Porcelain 203
Rosettes, Surfex 198
Shadeholders 203
Socket Bodies, Porcelain..... 198
Socket Caps, Porcelain 198
Sockets, Duplex 199
Sockets, Husk 199
Sockets, Mogul 202
Sockets, Porcelain 199, 202
Sockets, Reflector 199

Page

P & S Sockets, Weatherproof.. 199
Surfex Wiring Systems..... 198
Switches, Feed-Thru 205
Switches, Pendent 205
Switches, Pull 205
Switches, Push Button 205
Switches, Surfex 198
Switches, Tumbler, Flush 204, 205
Switches, Tumbler, Surface 205
Switches, Weatherproof 206
P & S-Despard Adapters, Insulating 208
Caps, Plug 208
Covers, Metal Box..... 209
Devices, Industrial and Commercial 207
Door Switches 206
Hoods, Pilot Light..... 209
Lamps, Pilot Light..... 209
Lights, Night 209
Lights, Pilot 209
Outlets, Convenience 208
Outlets, Radio 208
Plate Inserts 209
Plates, Bakelite 211
Plates, Brown-X 211
Plates, Chrome-X 211
Plates, Combination 213
Plates, Ivory 211
Plates, Metal 211
Plates, Name 209
Plates, Uniline 211
Plates, Wall 211
Pushes, Bell 209
Reflectors, Pilot Light..... 209
Straps, Appliance 209
Straps, Mounting 209
Switches, Momentary Contact 207
Switches, Tumbler 208
Wiring Diagrams 210
Paint, Electrical 164
Pancake Raceway, Wiremold.. 94
Panelboards, Distribution, Bulldog 281, 282
Distribution, Square D..... 286
Lighting, Bulldog....276–280, 287
Lighting, Square D.....283–285
Panels, Push Button, Edwards 347
Parabola Reflectors, Hubbell.. 475
Paranite Cable, Armored.....23, 24
Cable, Dreadnaught 129, 130, 132
Cable, Heavy Duty 129, 130
Cable, Ignition, Oil Burner.. 128
Cable, Lead-Covered 126, 127
Cable, Mining Machine 132
Cable, Power, Bus-Duct 135
Cable, Service Drop 134
Cable, Service Entrance 133
Cable, Sheathed, Non-Metallic 128
Cable, Thermoplastic 128
Cable, Welder 132
Cable, Welding Machine 132
Conduit, Steel, Flexible..... 22
Cord, Dreadnaught 130
Cord, Flexible 134–136
Cord, Heater 135
Cord, Household 135
Cord, Lamp 136
Cord, Plastic 136
Cord, Reinforced 135
Cord, Rubber 136
Cord, Type S-SJ 130
Cord, Vulcan 134, 135

Paranite Wire, Building....125–127
Wire, Fixture 126
Wire, Ground, Armored 23
Wire, Machine Tool 128
Wire, Neon Sign 128
Wire, Small Diameter 127
Wire, Switchboard 128
Wire, Telephone 136
Wire, Thermoplastic 128
Wires and Cables.....123–136
Parkway Cable, Crescent..... 141
Paste, Soldering, McGill..... 161
Soldering, Nokorode 161
Pear Push, Edwards..... 348
Pedestal Fans, Hunter..... 328
Pendent Switch and Convenience Outlet, Leviton..... 219
Switches, Hubbell 171
Switches, Leviton 219
Switches, P&S 205
Switches, Rodale 223
Penn-Union Connectors, Service 155
Permaflector Color-Lites 445
Conduit, Easy-To-Install 447
Louvers 446
Outlet Box Cover Assemblies 447
Roundels, Glass 446
Sockets 447
Permaflectors, Pittsburgh ..443, 444
Philite Fluorescent Lighting Units 402
Photo-Cell Receiver Units, Worner 357
Photolectric Announcer, Worner 357
Burglar Alarm Systems, Worner 356
Picture Lights, Kliegl..... 500
Lights, Northern 484
Reflectors, Faries 484
Pilot Light and Convenience Outlet, Hubbell 190
Light and Switch, Hubbell.. 190
Lamp Receptacles, Hubbell.. 176
Pipe, Running Thread..... 14
Pipe Benders, Greenlee.....391, 392
Cutters, Armstrong 391
Hangers, Bull Dog..... 33
Pushers, Greenlee 394, 395
Straps, Appleton 33
Threading Tools, Armstrong 387, 388
Vises, Armstrong 388, 390
Pipes, Ground, Seyler..... 359
Pittsburgh Luminaires, Fluorescent 425, 426
Permaflectors 443, 444
Troffers 426
Plate Inserts, Blank, P&S-Despard 209
Plates, Bakelite, P&S-Despard 211
Blank, Hubbell 197
Blank, P&S 212
Brown-X, P&S 212
Brown-X, P&S-Despard 211
Chrome-X, P&S 212
Chrome-X, P&S-Despard 211
Combination, Hubbell 197
Combination, P&S 213
Combination, P&S-Despard 213
Convenience Outlet, Hubbell 197
Convenience Outlet, P&S .. 212
Glass, Haring 214
Ivory-X, P&S 212
Ivory, P&S-Despard 211

Page

Plates, Laboratory, Chromalox 316
Lift, Joslyn 360
Metal, P&S-Despard 211
Name, P&S-Despard 209
Push Button, Edwards 349
Sill, Appleton 30
Strain, Joslyn 360
Switch, P&S 212
Switch Box, Edwards 347
Switch, Push, Hubbell 197
Switch, Toggle, Hubbell 197
Telephone, Hubbell 197
Telephone, P&S 212
Uniline, P&S-Despard 211
Wall, P&S 212
Wall, P&S-Despard 211
Pliers, Champion DeArment 379
Channellock 379
Klein 380
Plug Adapters, Hubbell 171
Adapters, Polarized, Hubbell 179
Caps, Cord Grip, Hubbell 172, 178, 181
Caps, Hubbell 171, 172
Caps, P&S-Despard 208
Caps, Polarized, Hubbell 178–181, 183
Caps, Rodale 223
Caps, Rubber, ProTex 222
Caps, Rubber, Safeway 221
Caps, Spring-Action 220, 221
Caps, Twist-Lock, Hubbell 185–188
Covers, Rubber, Hubbell 190
Fuse Cutouts 240, 241
Fuses, Buss 243
Receptacles, Appleton 74
Receptacles, Attachment, Unilet 67
Receptacles, Condulet, Obround 82
Receptacles, Fusible, Square D 256
Receptacles, Weatherproof, Hubbell 177
Plug-In Duct, Saflex, Square D 122
Strip Fittings, National 101–103
Plugmold and Fittings, Wiremold 94, 95
Plugs and Pockets, Stage, Kliegl 498
Plugs, Attachment, Benjamin 220
Attachment, Cartridge Fuse, Hubbell 172
Attachment, Hubbell 171, 172
Attachment, Polarized, Hubbell 180
Circuit-Breaking, Appleton 74
Ever-Lok, R & S 235, 237
Flashing, Betts & Betts 233
Fusible, Hubbell 171
Heater, Rodale 224
Motor, Hubbell 173, 174
Motor, Hubbellock 191
Motor, Polarized, Hubbell 179
Motor, Twist-Lock, Hubbell 184, 186–188
Outlet, Nepcoduct 112
Rubber, C & E 229
Rubber, Safeway 221
Rubber, Weatherproof, Safeway 222
Switch, Hubbell 171
Pocket Tool Cases, Klein 381
Pockets and Plugs, Stage, Kliegl 498
Pockets, Tool, Klein 381

Page

Points, Drive, Seyler 359
Poles, Floodlight, Revere 510–513
Pony Wall Sockets, Hubbell 166
Porcelain Bushings, Federal 159
Bushings, Minerallac 34
Cleats 159, 160
Insulators 363
Insulators, Mine 363
Insulators, Strain 364
Lighting Fixture, Alabax 479–481
Receptacles, Hubbell 168, 177, 178, 187
Receptacles, Leviton 217
Receptacles, P&S 200, 201, 203
Rosettes, P&S 203
Socket Bodies, P&S 198
Socket Caps, P&S 198
Sockets, Federal 159
Sockets, Leviton 218
Sockets, P&S 199, 202
Sockets, Permaflector 447
Tubes 158
Portable Extension, C & E 229
Lamp Guards, C & E 229
Lamp Guards, McGill 227, 228
Lamps, C & E 229
Reelites, Appleton 320, 321
Portables, Desk, Faries 483, 484
Potheads, Rusgreen 157
Poultry House Light Timers, Tork 270
Power Distribution Systems, Bulldog 118, 119
Distribution Systems, Feedrail 116, 117
Distribution Systems, Square D 122
Pumps, Greenlee 395
Pressure Switches, Cutler-Hammer 311
Switches, Square D 302
Projector Lamps, G-E 521
Projectors, Floodlight, Benjamin 509
Kliegl 500
ProTex Plug Caps 222
Rubber Sockets 222
Pryne Ventilators 333
Pull Boxes, Appleton 54, 55
Boxes, Isert 53
Sockets, Lamp Base Attachment, Hubbell 170
Sockets, Leviton 217
Switch Bodies, Hubbell 165
Switches, Ceiling, Hubbell 196
Switches, P&S 205
Pullers, Cable, Greenlee 395
Fish Tape, Ideal 394
Fish Tape, Klein 394
Fuse, Ideal 246
Pumps, Power, Greenlee 395
Punch Sets, Knockout, Greenlee 382
Push Button Blocks, Edwards 350
Button Panels, Edwards 351
Button Plates, Edwards 349
Button Stations, Cutler-Hammer 310, 311
Button Stations, Square D 301
Button Switches, Hubbell 195
Button Switches, Leviton 218
Button Switches, P&S 205
Buttons, Edwards 348
Buttons, Elevator Call, Edwards 347
Buttons, Entrance, Edwards 347

Page

Push Buttons, Luminous, Nutone 526
Switch Plates, Hubbell 197
Switch Plates, P&S 212
Switches, Arrow 214, 215
Pushers, Pipe, Greenlee 394, 395
Pushes, Bell, P&S-Despard 209
Card-Holder Type, Edwards 349
Desk, Edwards 350
Entrance, Edwards 347, 349
Floor, Edwards 350
High Voltage, Edwards 348
Low Voltage, Edwards 348
Pear, Edwards 348
Return Call, Edwards 348
Screwless, Edwards 349
Watertight, Edwards 348

R

R & S Boxes, Floor 57
Connectors, Ever-Lok 234, 235, 237
Plugs, Ever-Lok 235, 237
Receptacles, Angle Type 238
Receptacles, Ever-Lok 234–237
Receptacles, Floor 57
Receptacles, Watertight 57
Raceways, CurtiStrip 440
Florduct, National 106
Lopo-Trim, National 102
Metal Moulding, National 96
4 by 4 Wirewa, National 108–110
Nepcoduct 111
Square D 114, 115
Surfaceduct, National 104
Wiremold 91–95
Xtensionduct, National 100
Racks, Secondary, National 361
Secondary, PP 362
Raco Boxes, Outlet 37, 38
Boxes, Set-Up 45
Boxes, Switch 38
Covers, Outlet Box 38
Hangers, Bar 38
Rings, Concrete 38
Rings, Extension 37
Radio Fuses, Buss 245, 246
Outlet Caps, Hubbell 176
Outlets, Hubbell 176
Outlets, P&S-Despard 208
Panel Lamps, Eveready 533
Raintight Switches, Square D 255
Range Receptacle Adapters, Hubbell 171
Receptacles, Hubbell 183, 184
Rawl-Chucks 370
Rawldrills 370
Rawlgrips 372
Rawlplugs 369
Receptacle and Switch, Hubbell 174
Receptacle Adapters, Hubbell 187
Adapters, Range, Hubbell 171
Covers, Seal-Tite, Hubbell 190
Plates, Glass, Haring 214
Switch and Outlet Combination, Hubbell 171
Receptacles, Acorn, Hubbell 176
Angle Type, R & S 238
Attachment Plug, Unilet 67
Candelabra, Hubbell 168
Ceiling, Hubbell 166
Circuit-Breaking, Appleton 74
Cleat, Hubbell 177
Cleat, P&S 201

Page

Receptacles, Cluster, Hubbell.. 174
Concealed, Hubbell 177
Conduit Box, Hubbell 177, 180, 187
Ever-Lok, R & S.....234–237
Explosion-Proof, Appleton .. 77
Fielding, Hubbell 177
Fixture, P&S 202
Floor, R & S..... 57
Flush, Hubbell 177–189
Flush, Leviton 218
Hubbellock 191, 192
Intermediate Base, Hubbell.. 168
Lamp, Condulet, Obround .. 82
Lamp, Unilet 67
Lumiline, Hubbell 167
Mogul, P&S 203
Moulding, Hubbell 177
Outdoor, Appleton 78
Outdoor, Hubbell 177
Outdoor, Weatherproof, Hubbell 177
Outlet Box, Hubbell 177
Outlet Box, Leviton 217
Outlet Box, P&S 200
Outlet Box, Woodhead 222
Pilot Lamp, Hubbell..... 176
Plug, Appleton 74
Plug, Condulet, Obround 82
Plug, Fusible, Square D..... 256
Plug, Weatherproof, Hubbell 177
Polarized, Hubbell 178–184
Porcelain, Hubbell 177, 178, 182, 187
Porcelain, Leviton 217
Porcelain, P&S 200, 201, 203
Pull Chain, P&S..... 201
Range, Hubbell 183, 184
Round Type, Hubbell..... 177
Rubber, Safeway 222
Rubber, Woodhead 222
Screw Ring, P&S..... 202
Sealed Safety, Appleton..... 77
Sign, Hubbell 168
Sign, Leviton 217
Sign, P&S 202
Surface, P&S 198
Twist-Lock, Hubbell 186–189
Wall, Hubbell 178
Watertight, R & S.....57, 238
Weatherproof, P&S 206
Weathertight, R & S..... 238
Receptaplugs, Edwards 350
Recessed Lighting, Kliegl..... 499
Lighting, Pittsburgh 426
Lighting Units, Curtis....436, 442
Units, Swivelier 485
Reducers, Conduit, Appleton.... 15
Conduit, Nepcoduct 112
Fuse, Buss 240
Fuse, Ideal 240
Socket, Benjamin 219
Socket, Hubbell 169
Reducing Bushings, Jake..... 16
Connectors, Appleton 17
Reelites, Constant Duty, Appleton 321, 325
Portable, Appleton 320, 321
Power, Appleton 323
Reels, Air, Appleton..... 324
Air Hose, Appleton..... 324
Fish Tape, Ideal..... 394
Grounding, Appleton 325
Retact-O, Appleton 323
Reflector and Bracket, Benjamin 462

Page

Reflector Covers, Glass, Benjamin 469
Fittings, Type X, Benjamin.. 473
Fixture, Benjamin ..460, 462, 463
Fixture Sockets, Benjamin 470, 471
Guards, Benjamin 469
Hoods, Benjamin 455, 461, 474
Lamps, G-E 521
Sockets, R & S..... 199
Reflectors, Cone, Hubbell..... 475
1800 Series, Benjamin..... 460
Fixture, Killark 85
Flat, Hubbell 475
Glass, Macbeth 478
Half, Hubbell 475
High Bay, Benjamin..... 464
Industrial, Curtis 441
Metal, A-A 475
Metal, Hubbell 475
Parabola, Hubbell 475
Picture, Faries 484
Picture, Northern 484
Pilot Light, P&S-Despard.... 209
Pittsburgh 443, 444
RLM, Benjamin 453, 454, 456–461
Sewing Machine, Benjamin.. 475
Shade Holder, Benjamin..... 461
Shallow Dome, Benjamin.... 475
Show Window Permaflector 443, 444
Show Window, X-Ray....441, 442
Showcase, Faries 484
Sign, Benjamin 363
Silv-A–King 452
Silvered Bowl Lamp, Benjamin 455
Socket, Benjamin 456, 457
Stock-Bin-Lite, Benjamin 462
Turnlox, Benjamin 453, 454
Type RR, Benjamin.....458, 459
Regulators, Pressure, Square D 302
Relays, Burglar Alarm, Edwards 353
Magnetic, Square D..... 295
Telecode, Benjamin 358
Reliance Time Switches..... 269
Renewable Fuses, Buss..... 242
Republic Bending Tools....6, 7, 393
Electrunite, E.M.T. 6
Resistance Wire, Rodale..... 224
Resurfacers, Commutator, Ideal 374, 375
Retract-O-Reels, Appleton 323
Revere Floodlight Poles....510–513
Standards, Service Station 513–516
Ribbon, Fuse, Tested..... 244
Rigid Steel Conduit..... 10
Ringing Drops, Constant, Edwards 353
Rings, Concrete, Raco..... 38
Extension, Raco 37
Rippers, Cable, Ideal..... 379
Cable, National 379
Rodale Caps, Plug..... 223
Cord Sets 223
Heating Elements 224
Outlets, Convenience 223
Plugs, Heater 224
Switches, Feed-Thru 223
Switches, Pendant 223
Taps, Current 223
Wire, Nichrome 224
Rods, Ground, Copperweld, Seyler 359
Ground, Seyler 359

Page

Rosettes, Cord, Condulet..... 82
Cord, Unilet 67
Porcelain, P&S 203
Surfex, P&S 198
Rotary Hack Saw, Misener..... 385
Switches, Cutler-Hammer .. 311
Roundels, Glass, Permaflector 446
Rubber Cord Connectors, Safeway 221
Cord, Paranite 136
Covers, Seal-Tite, Hubbell.... 190
Plugs, C & E..... 229
Receptacles, Safeway 222
Receptacles, Watertight 222
Socket Handles, C & E..... 230
Sockets, C & E..... 230
Sockets, Hubbell 168
Sockets, ProTex 222
Tape, Dutch Brand..... 161
Tape, Okonite 163
Running Thread, Conduit..... 14
Rural Electrification Wiring Fittings 78
Rusgreen Products 157

S

Saddle Supports, Nepcoduct.... 111
Safety Switches, Bulldog....247–256
Switches, Cutler-Hammer 256–259
Safeway Connectors, Cord..... 221
Plug Caps, Rubber..... 221
Plugs, Rubber, Weatherproof 222
Receptacles, Rubber 222
Saflex Duct, Square D..... 122
Salts, Soldering, Nokorode..... 161
Sangamo Time Switches....271–273
Saw Blades, Hack..... 384
Saws, Commutator Slotting, Ideal 376
Hack, Rotary, Misener..... 385
Scotch Tapes, Electrical..... 163
Screw Anchors, Ackerman-Johnson 368
Anchors, Rawlplug 369
Nuts, Machine 366
Screws, Machine 366
Wood 365
Sealing Fittings, Explosion-Proof, Killark 90
Secondary Breaker Unilets..... 75
Racks, National 361
Racks, PP 362
Service Connectors, Penn-Union 155
Drop Cable, Paranite..... 134
Entrance Cable, Paranite .. 133
Entrance Fittings, Appleton 20, 28, 30
Entrance Fittings, Killark .. 21
Fittings, Nepcoduct 113
Racks, National 361
Sewing Machine Reflectors, Benjamin 475
Seyler Caps, Drive..... 359
Clamps, Ground Wire..... 359
Pipes, Ground 359
Points, Drive 359
Rods, Ground 359
Rods, Ground, Copperweld.. 350
Shadeholder Reflectors, Benjamin 461
Shadeholders, Arrow 214
Hubbell 169
P & S..... 203

Page

Shades, I.E.S., Macbeth 478
Half, A-A 475
Shawmut Clips, Fuse 239
Cutout Bases, Fuse 239
Lugs, Wire 239
Terminals, Fuse 239
Sheathed Cable, Non-Metallic, Paranite 128
Sheldon Starters, Fluorescent Lamp 529
Sherman Clamps, Ground 37
Connectors, Cable 154
Connectors, Fixture 154
Connectors, Set Screw 154
Connectors, Solderless 154
Connectors, Wire 154
Lugs, Soldering 149
Shields, Expansion, Diamond 367
Expansion, Keystone 367
Show Window Lighting, Permaflector 443, 444
Window Reflectors, X-Ray 441, 442
Showcase Reflector Lamps, Sylvania 523
Shutters, Automatic, Hunter 329
Fan, Signal 332
Sign Flashers, Betts & Betts 233
Lamps, G-E 520
Lamps, Sylvania 522
Receptacles, Hubbell 168
Receptacles, Leviton 217
Receptacles, P&S 202
Reflectors, Benjamin 363
Signal Drills, Electric 371
Fans, Desk 330
Fans, Exhaust 331, 332
Fans, Pedestal 330
Fans, Vent 331, 332
Lights, Day-Brite 451
Shutters, Fan 332
Signaling Equipment, Hospital, Edwards 346, 347
Systems, Edwards 344
Transformers, Dongan 290
Transformers, Edwards 351
Signs, Directional Atlite 449, 450
Exit, Day-Brite 450
Sill Plates, Appleton 30
Silv-A-King Floodlights 505
Island Light 505
Lamp Holders 505
Lighting Units, Fluorescent 415, 416
Reflectors 452
Yardlight 505
Silvered Bowl Lamps, G-E 520
Sirens, Federal 337
Vehicle, Federal 338
Skinner and Straightener, Wire, Ideal 378
Sleeves, Cable, Rusgreen 157
Insuliner, T & B 14
Slimline Lamps, G-E 521
Slow Burning Wire 147
Smithcraft Fixtures, Fluorescent 407
Snap Switches, Arrow 216
Switches, Hubbell 196
Snap-In Blanks, Appleton 50
Socket Adapter Straps, Benjamin 473
Adapters, P&S 203
Attachments, Pull, Hubbell 169
Bases, Hubbell 165
Bodies, Electrolier, Hubbell 165
Bodies, Hubbell 165, 166

Page

Socket Bodies, Porcelain, P&S 198
Bushings, Hubbell 169
Caps, Hubbell 165, 166
Caps, Porcelain, P&S 198
Chain Links, Hubbell 169
Chain Tassels, Hubbell 169
Chains, Hubbell 169
Cord, Hubbell 169
Extensions, Benjamin 220, 221
Handles, Rubber, C & E 230
Reducers, Benjamin 219
Reducers, Hubbell 169
Reflectors, Benjamin 456, 457
Te-Taps, Pull, Hubbell 170
Sockets, Aluminum, Hubbell 168
Assembled, Hubbell 165
Benco, Benjamin 474
Candelabra, Hubbell 168
Duplex, P&S 199
1800 Series, Benjamin 474
Fixture, McGill 225
Husk, P&S 199
Lamp Guard, McGill 228
Leviton 217
Mogul Base, Benjamin 472
Mogul, Benjamin 474
Mogul, P&S 202
Porcelain, Federal 159
Porcelain, Leviton 218
Porcelain, Permaflector 447
Porcelain, P&S 199, 202
Pull, Lamp Base Attachment, Hubbell 170
Pull, Leviton 217
Reflector, P&S 199
Reflector Fixture, Benjamin 470, 471
Rubber, C & E 230
Rubber, Hubbell 168
Rubber, ProTex 222
Self-Locking, Benjamin 472
Shock-Absorbing, Benjamin 470–472
Wall, Pony, Hubbell 166
Watertight, Woodhead 222
Weatherproof, Benjamin 474
Weatherproof, Hubbell 168
Weatherproof, Leviton 218
Weatherproof, P&S 199
Weatherproof, Woodhead 222
Solder, Bar, Hewitt 161
Core, Nokorode 161
Wire, Hewitt 161
Soldering Fluid, Nokorode 161
Iron Stand, Temperature Regulating 317
Irons, American Beauty 317
Lugs, Rusgreen 157
Lugs, Sherman 149
Paste, McGill 161
Paste, Nokorode 161
Salts, Nokorode 161
Tools, Ideal 318
Solderless Connectors, Buchanan 155
Connectors, Ideal 153
Connectors, Sherman 154
Connectors, T & B 152
Lugs, T & B 152
Speed Testers, Ideal 376
Splice Caps, Buchanan 155
Splicing Compound, P.R. 164
Kit, Cable, Rusgreen 157
Spotlight Lamps, Sylvania 523
Spotlights, Stage, Kliegl 500
Sprayer Attachment, Ideal 319
Spring-Action Plug Caps 220, 221

Page

Springs, Burglar Alarm, Edwards 353
Mandrel 7
Square D Breakers, Circuit 260–262
Cabinets, Fuse 285
Clips, Fuse 240
Contactors, Magnetic 296
Contactors, Mechanically-Held 297
Duct 115
Duct, Saflex 122
Duct, Screw Cover 115
Load Centers 264–267
Motor Control 294–301
Multi-Breakers 264–267
Panelboards, Distribution 286
Panelboards, Lighting 283–285
Raceways 115
Receptacles, Plug 256
Regulators, Pressure 302
Relays, Magnetic 295
Starters, Magnetic 297–300
Starters, Manual 294
Starters, Motor 294–301
Stations, Push Button 301
Switches, Enclosed 250–256
Switches, Float 302
Switches, Limit 303, 304
Switches, Pressure 302
Switches, Raintight 255
Switches, Safety 250–256
Switches, Vacuum 302
Square-Duct Fittings 114
Wiring Trough 114
Stage Lighting, Kliegl 498, 499
Sta-Kon Assortment Kit, T & B 151
Connectors, T & B 150
Terminals, T & B 150
Tools, T & B 150
Wire Joints 153
Standards, Service Station, Revere 513–516
Stands, Vise, Armstrong 389
Staples, Cable, Appleton 33
Cable, Bull Dog 32
Insulated, Blake 364
Star Bolts, Toggle 366
Starters, Fluorescent Lamp, Sheldon 529
Magnetic, Square D 297–300
Manual, Cutler-Hammer 301, 310
Manual, Square D 294
Motor, Cutler-Hammer 306–310
Motor, Square D 294–301
Stations, Buzzer, Hospital, Edwards 346, 347
Calling, Nurses', Edwards 346
Emergency, Edwards 354
Fire Alarm, Edwards 354
Lamp, Corridor, Edwards 346
Push Button, Cutler-Hammer 310, 311
Push Button, Square D 301
Signaling, Edwards 346, 347
Statiscope, Minerallac 289
Steber Floodlights 503, 504
Utilites 501
Yardlights 504
Steberlite Units 502
Steel Bolts, Stove 364
Cabinets, Isert 52–54
Conduit, Flexible, Paranite 22
Conduit, Rigid 10
Screws, Machine 366

Page

Steelite Lighting Units, Benjamin ... 467
Stems, Fixture, Appleton ... 22
Sterling Electric Power Drives 293
Stock-Bin-Lite Reflectors, Benjamin ... 462
Stocks and Dies, Armstrong ... 387–389
Stonco Floodlight Assemblies ... 517, 518
Stove Bolts, Steel ... 364
Wire, National ... 145
Strain Insulators, Porcelain ... 364
Plates, Joslyn ... 360
Straps, Appliance, P&S-Despard ... 209
Cable, Appleton ... 33
Messenger Cable, Minerallac 34
Mounting, P&S-Despard ... 209
Pipe, Appleton ... 33
Socket Adapter, Benjamin ... 473
Strip, Plug-In, National ... 101
Strip Heaters, Chromalox ... 315
Lights, Kliegl ... 498
Strippers, Cable, Ideal ... 378
Wire, Ideal ... 378, 379
Sun Lamps, Swivelier ... 489
Supports, Box, Guy Wire, Appleton ... 46
Cable, Bulldog ... 33
Conduit, Korns ... 35
Fixture, Curtis ... 438
Insulator, Bull Dog ... 160
Saddle, Nepcoduct ... 111
Surfaceduct and Fittings, National ... 104, 105
Switch and Convenience Outlet, Hubbell ... 174, 190
and Convenience Outlet, Pendant, Leviton ... 219
and Pilot Light, Hubbell ... 190
and Pilot Light, Leviton ... 218
and Receptacle, Leviton ... 218
and Starter Data, Cutler-Hammer ... 305
Switch Bodies, Pull, Hubbell ... 164
Box Covers, Appleton ... 51
Boxes, Appleton ... 47–50
Boxes, Door, Appleton ... 50
Boxes, Gang, Appleton ... 51
Boxes, Raco ... 38
Plates, Glass, Haring ... 214
Plates, P&S ... 212
Plates, Push, Hubbell ... 197
Plates, Toggle, Hubbell ... 197
Plugs, Hubbell ... 171
Receptacle and Outlet Combination, Hubbell ... 171
Switchboard Instruments, Weston ... 288, 289
Wire, National ... 144
Wire, Paranite ... 128
Switches, Appliance, Cutler-Hammer ... 231
Appliance, Hubbell ... 193
Bell Pull, Edwards ... 347
Canopy, Leviton ... 219
Cord, Hubbell ... 171
Door, Arrow ... 215
Door, Cutler-Hammer ... 233
Door, Hubbell ... 195, 196
Door, P&S ... 206
Enclosed, Bulldog ... 247–250
Enclosed, Cutler-Hammer ... 256–259
Enclosed, Square D ... 250–256
Explosion-Proof, Appleton ... 77
Feed-Thru, Leviton ... 219

Page

Switches, Feed-Thru, P&S ... 205
Feed-Thru, Rodale ... 223
Float, Cutler-Hammer ... 311, 312
Float, Square D ... 302
Heater, Arrow ... 215
Levolier, McGill ... 225
Limit, Cutler-Hammer ... 312
Limit, Micro ... 275
Limit, Square D ... 303, 304
Lock, Burglar Alarm, Edwards ... 353
Mark-Time ... 273
Mercury, Hubbell ... 194
Mercury, Mark-Time ... 273
Momentary Contact, Arrow ... 214, 215
Momentary Contact, Cutler-Hammer ... 231
Momentary Contact, P&S-Despard ... 207
Mounting, Cutler-Hammer ... 231, 233
Outdoor, Appleton ... 78
Outdoor, Hubbell ... 195
Pendent, Hubbell ... 171
Pendent, Leviton ... 219
Pendent, P&S ... 205
Pendant, Rodale ... 223
Poultry House Lighting, Tork ... 270
Precision, Micro ... 274, 275
Pressure, Cutler-Hammer ... 311
Pressure, Square D ... 302
Pull, Ceiling, Hubbell ... 196
Pull, P&S ... 205
Push, Arrow ... 214, 215
Push Button, Hubbell ... 195
Push Button, P&S ... 205
Push Button, Leviton ... 218
Push-Pull, Cutler-Hammer ... 232
Raintight, Square D ... 255
Rotary, Cutler-Hammer ... 232
Safety, Bulldog ... 247–250
Safety, Cutler-Hammer ... 256–259
Safety, Square D ... 250–256
Sealed Safety, Appleton ... 77
Service Control, Cutler-Hammer ... 263
Snap, Arrow ... 216
Snap, Hubbell ... 196
Surfex, P&S ... 198
Time, Badger ... 269
Time, Reliance ... 269
Time, Sangamo ... 271–273
Time, Tork ... 270
Toggle, Acorn ... 193, 195
Toggle, Flush, Hubbell ... 193–196
Toggle, Surface, Hubbell ... 193
Tumbler, Flush, Arrow ... 215
Tumbler, Flush, P&S ... 204, 205
Tumbler, Flush, P&S-Despard ... 207, 208
Tumbler, Leviton ... 218
Tumbler, Surface, P&S ... 205
Vacuum, Square D ... 302
Weatherproof, Hubbell ... 195
Weatherproof, P&S ... 206
Swivelier Lamps, Heat ... 489
Lamps, Portable ... 487, 488
Lamps, Sun ... 489
Lighting Units ... 485–488
Recessed Units ... 485
Sylvania Fixtures, Fluorescent ... 427–430
Fixtures, Spotlight ... 428
Fixtures, Strip Lighting ... 429

Page

Sylvania Lamps ... 522, 523
Troffers, Recessed ... 428

T

T & B Boxes, Cast Iron ... 55
Boxes, Floor ... 56
Boxes, Junction ... 55
Bushings, Insulated ... 13
Bushings, Metallic, Insulated ... 14
Connectors, Box ... 31, 32
Connectors, Cable ... 31, 32, 152
Connectors, Conduit ... 31, 32
Connectors, Lock-Tite ... 152
Connectors, Solderless ... 152
Connectors, Sta-Kon ... 150
Connectors, Wire ... 151
Couplings, Conduit ... 15
Extensions, Connector ... 15
Fittings, Conduit ... 15
Hickeys, Lakin ... 393
Lugs, Lock-Tite ... 152
Lugs, Solderless ... 152
Lugs, Wedge-On ... 148
Sleeves, Insuliner ... 14
Sta-kon Assortment Kit ... 151
Taps, Cable ... 152
Terminals, Sta-kon ... 150
Terminals, Wedge-On ... 148
Tools, StaKon ... 150
Tools, Wedge-On ... 148
Wire Joints, Sta-Kon ... 153
Wrenches, Key ... 152
TBF Clamps, Beam ... 35
Hangers, Conduit Box ... 35
Hangers, Messenger ... 35
Table Cone, Hubbell ... 170
Taps, Hubbell ... 171
Tachometers, Ideal ... 377
Tap Fuses, Buss ... 241
Tape Pullers, Fish, Klein ... 394
Tapes, Cotton, G-E ... 162
Fish, Ideal ... 394
Friction, Dutch Brand ... 162
Friction, Manson ... 163
Friction, Plymouth ... 163
Rubber, Dutch Brand ... 161
Rubber, Okonite ... 163
Scotch, Electrical ... 163
Varnished, G-E ... 162
Taps, Cable, T & B ... 152
Cube, Spring-Action ... 221
Current, Hubbell ... 170, 171
Current, Leviton ... 217
Current, Rodale ... 323
Current, Signal, Hubbell ... 170
Table, Hubbell ... 171
Tassels, Socket Chain, Hubbell 169
Telecode Relays, Benjamin ... 358
Telephone Plates, Hubbell ... 197
Plates, P&S ... 212
Wire, Paranite ... 136
Telephones, Apartment House, Edwards ... 352
Temperature Regulating Stand, Soldering Iron ... 317
Terminal Units, Gorilla Grip ... 156
Terminals, Aircraft, Rusgreen 157
Fuse, Shawmut ... 239
Sta-Kon, T & B ... 150
Wire, Bulldog ... 151
Wire, T & B ... 148
Test Light and Fuse Puller, Ideal ... 246
Testers, Ideal ... 246
Insulation, Ideal ... 376

Page

Testers, Speed, Ideal ... 376
Voltage, Ideal ... 246
Test-Glo, Ideal ... 246
Testing Instruments, Minerallac ... 289
Te-Taps, Plug, Hubbell ... 170
Socket, Hubbell ... 170
Theater Dimmers, C-H ... 313
Thermo-Grip Tools, Ideal ... 318
Thermoplastic Wire, Paranite 128
Thermostat Cable, Crescent ... 147
Three-Lite Lamps, G-E ... 520
Time Switches, Badger ... 269
Switches, Mark-Time ... 273
Switches, Reliance ... 269
Switches, Sangamo ... 271–273
Switches, Tork ... 270
Timers, Poultry House, Tork ... 270
Toaster Elements, Rodale ... 224
Toggle Bolts, Star ... 366
Switch Plates, Hubbell ... 197
Switches, Flush, Hubbell ... 193–196
Switches, Surface, Hubbell ... 193
Tool Bags, Klein ... 381
Cases, Pocket, Klein ... 381
Pockets, Klein ... 381
Tools, Bending, Appleton ... 6, 393
Bending, Republic ... 7, 393
Bending, T & B ... 393
Crimping, Buchanan ... 155
Electrical Metallic Tubing, Briegel ... 8
Hammer, B & D ... 373
Indenter, Appleton ... 8
Linemen's, Klein ... 380
Pipe Cutting, Armstrong ... 391
Pipe Threading, Armstrong ... 387–389
Soldering, Ideal ... 318
Sta-Kon, T & B ... 150
Thermo-Grip, Ideal ... 318
Wedge-On, T & B ... 148
Torches, Blow, C & L ... 386
Tork Clocks ... 270
Tracks, Power, Feedrail ... 116, 117
Train Lighting Lamps, Sylvania ... 523
Transformers, Auto, Jefferson 292
Chime, Edwards ... 357
Chime, NuTone ... 529
Control, Jefferson ... 291
Dongan ... 290
Doorbell, Edwards ... 351
Double-Wound, Jefferson ... 292
Mercury Lamp, Jefferson ... 291
Signaling, Dongan ... 290
Signaling, Edwards ... 351
Treads, Floor, Edwards ... 350
Trips, Door, Burglar Alarm, Edwards ... 353
Trol-E-Duct, Bulldog ... 118, 119
Trolleys, Feedrail ... 116, 117
Troughs, Wiring, Square-Duct ... 114
Tube Benders, Appleton ... 7, 393
Benders, Republic ... 6, 7, 393
Benders, T & B ... 393
Cutters, B-M ... 8
Holders, B-M ... 8
Tubes, Porcelain ... 158
Tubing, Electrical Metallic ... 6
Flexible, National ... 22
Tubular Lamps, Sylvania ... 523
Tumbler Switch Plates, P&S ... 212
Switches, Flush, Arrow ... 215
Switches, Flush, P&S ... 204, 205

Page

Tumbler Switches, Flush, P&S-Despard ... 208
Switches, Leviton ... 218
Switches, P&S-Despard ... 207
Switches, Surface, P&S ... 205
Turnbuckles, Joslyn ... 360
Turnlox Lighting Equipment, Benjamin ... 453–455

U

U.S. Cable, Portable ... 142
Cable, Building ... 137, 138
Cord, Portable ... 141, 142
Wire, Aluminum ... 139
Wire, Building ... 137, 138
Wire, Small Diameter ... 138
Wire, Thermoplastic ... 138
Ultraviolet Germicidal Units ... 489
Undercutters, Commutator, Ideal ... 375
Underfloor Wiring System, Nepcoduct ... 111–113
Unilet Covers, FD-FS Series ... 70, 71, 73
Covers, Rectangular ... 65, 66
Covers, Vaportight ... 71, 73
Gaskets, Rectangular ... 67
Receptacles, Attachment Plug ... 67
Receptacles, Lamp ... 67
Rosettes, Cord ... 67
Unilets, Explosion-Proof, SH Series ... 77
FD Series ... 68, 69, 72
FD Series, Secondary Breaker ... 75
FS Series ... 68–70, 72
FS Series, Double Opening ... 69, 70
FS Series, Push Button Station ... 75
Push Button Station ... 75
Secondary Breaker ... 75
Vaportight, FS Series ... 75
Weatherproof, FS Series ... 75
Type A ... 58
Type A, No-Thread ... 61
Type B ... 58
Type B, No-Thread ... 61
Type BE ... 58
Type C ... 58
Type C, No-Thread ... 61
Type E ... 58
Type E, No-Thread ... 61
Type F ... 58
Type FD ... 68, 72
Type FDA ... 68, 72
Type FDC ... 68, 72
Type FDCA ... 69
Type FDCC ... 69
Type FDCT ... 69
Type FDD ... 69, 72
Type FDL ... 68
Type FDLA ... 69
Type FDR ... 68
Type FDS ... 72
Type FDT ... 69
Type FDX ... 69
Type FS ... 68, 69, 72
Type FS, No-Thread ... 69, 70, 72
Type FSA ... 68, 72
Type FSA, No-Thread ... 69
Type FSAA ... 68
Type FSAA, No-Thread ... 70
Type FSC ... 68, 69, 72
Type FSC, No-Thread ... 69, 70, 72

Page

Unilets, Type FSCA ... 68
Type FSCA, No-Thread ... 70
Type FSCC ... 68
Type FSCC, No-Thread ... 70
Type FSCD ... 68
Type FSCD, No-Thread ... 70
Type FSCT ... 68
Type FSCT, No-Thread ... 70
Type FSD ... 72
Type FSD, No-Thread ... 72
Type FSL ... 68
Type FSL, No-Thread ... 69
Type FSLA ... 68
Type FSLA, No-Thread ... 69
Type FSR ... 68
Type FSR, No-Thread ... 69
Type FSS ... 68, 72
Type FSS, No-Thread ... 69, 72
Type FST ... 68
Type FST, No-Thread ... 70
Type FSX ... 68
Type FSX, No-Thread ... 70
Type LB ... 58
Type LB, No-Thread ... 62
Type LBB ... 59
Type LBL ... 58
Type LBL, No-Thread ... 62
Type LBR ... 58
Type LBR, No-Thread ... 62
Type LF ... 58
Type LF, No-Thread ... 62
Type LFB ... 59
Type LFT ... 59
Type LL ... 59
Type LL, No-Thread ... 62
Type LLB ... 59
Type LLE ... 59
Type LR ... 59
Type LR, No-Thread ... 62
Type LRB ... 59
Type LRE ... 59
Type LRL ... 58
Type LRL, No-Thread ... 62
Type LU ... 59
Type T ... 60
Type T, No-Thread ... 62, 63
Type TA ... 59
Type TA, No-Thread ... 63
Type TB ... 59
Type TB, No-Thread ... 63
Type TL ... 60
Type TL, No-Thread ... 63
Type TR ... 60
Type TR, No-Thread ... 63
Type U ... 60
Type U, No-Thread ... 64
Type UB ... 60
Type UB, No-Thread ... 64
Type X ... 61
Type X, No-Thread ... 64
Type XA ... 60
Union Bushings, Bakelite ... 14
Bushings, Conduit ... 14
End Bushings, Insulated ... 14
Unions, Explosion-Proof, Killark ... 90
Universal Clips, Mueller ... 148
Uno Shadeholders, Arrow ... 214
Urn Heaters, Chromalox ... 316
Utilites, Steber ... 501

V

Vacuum Cleaners, Industrial, Ideal ... 319
Switches, Square D ... 302

Page

Vaporproof Light Fittings, Killark 83–86
Vapor-Seal Lighting Units, Benjamin 464
Vaportight Fixtures, Benjamin 464
Varnished Cambric Cable, Crescent 141
Tapes, G-E 162
Ventilating Fans, Kitchen, G-E 334
Fans, NuTone 332
Fans, Ventrola 334
Ventilators, Blo-Fan, Pryne 333
Window, Ventrola 334
Ventrola Ventilating Fans 334
Vibration Service Lamps, Sylvania 522
Virden Beamlights 477
Brackets, Bath 478
Hangers, Fixture 477
Holders, Fixture 477, 478
Lighting Fixtures, Fluorescent 404
Vise Stands, Armstrong 389
Vises, Pipe, Armstrong 388, 390
Voltage Testers, Ideal 246
Voltmeters, Switchboard, Weston 288, 289

W

Wall Sockets, Pony, Hubbell .. 166
Watertight Boxes, Floor, Latrobe 56
Connectors, Appleton 29, 30
Devices, Hubbellock 192
Floor Boxes, T & B 56
Lamp Receptacles, Woodhead 222
Push, Edwards 348
Receptacles, R & S 57, 238
Sockets, Woodhead 222
Weatherproof Plugs, Rubber, Safeway 222
Receptacles, P & S 206
Receptacles, Plug, Hubbell .. 177
Shadeholders, Arrow 214
Sockets, Benjamin 474
Sockets, Hubbell 168
Sockets, P&S 199
Sockets, Woodhead 222

Page

Weatherproof Switches, Hubbell 195
Switches, P&S 206
Wire 147
Weathertight Receptacles, R & S 238
Welder Cables, Paranite 132
Welding Cable, U.S. 141
Machine Cable, Paranite 132
Weston Instruments, Switchboard 288, 289
Whistles, Air, Federal 337
White Adjustable Fixtures 494–496
Winders, Coil, Ideal 377
Window Reflectors, Show, X-Ray 441, 442
Ventilators, Ventrola 334
Wire, Aluminum, U.S. 139
Asbestos, National 143, 144
Boiler Room, National 143
Building, Aluminum, U.S. 139
Building, National 136, 137
Building, Paranite 125–127
Building, U.S. 137, 138
Fish, Keystone 394
Fixture, Deltabeston 146
Fixture, National 145
Fixture, Paranite 126
Fuse, Tested 244
Ground, Armored, Paranite 23
Grounding, Appliance, National 145
Heat-Resisting, National 145
Lead, Appliance, National 145
Machine Tool, Paranite 128
Neon Sign, Paranite 128
Nichrome, Rodale 224
Resistance, Rodale 224
Slow Burning 147
Small Diameter, National .. 136
Small Diameter, Paranite .. 127
Small Diameter, U.S. 138
Stove, National 145
Switchboard, National 144
Switchboard, Paranite 128
Telephone, Paranite 136
Thermoplastic, Paranite 128
Thermoplastic, U.S. 138
Trench, Crescent 140
Weatherproof 147

Page

Wire Brackets, National 361
Cleats, Porcelain 159–160
Connectors, Ideal 153
Connectors, Marr 153
Connectors, Sherman 154
Connectors, T & B 151
Connectors, Wedge-Grip 154
Grips, Bulldog 151
Joints, Sta-Kon 153
Joints, T & B 153
Lugs, Shawmut 239
Skinner, Ideal 378
Strippers, Ideal 379
Terminals, Rusgreen 157
Terminals, Sta-Kon, T & B .. 150
Terminals, Wedge-On, T & B 148
Wireholders, National 361
Wiring Channel, CurtiStrip 440
Diagrams, P&S-Despard 210
Systems, Underfloor, Nepcoduct 111–113
Troughs, Square-Duct 114
Wiremold Fittings, Raceway .. 91–95
Raceway 91–95
Wire-Nuts, Ideal 153
Wirewa, 3-By-4, National .. 108–110
Wood Screws 365
Woodhead Connectors, Cord 221
Plug Caps, Rubber 221, 222
Plugs, Rubber 221
Receptacles, Outlet Box 222
Receptacles, Rubber 222
Sockets, Rubber 222
Sockets, Watertight 222
Sockets, Weatherproof 222
Worner Burglar Alarm Systems 356
Electronic Devices 356, 357
Wrenches, Key, T & B 152

X

X-Ray Reflectors, Curtis 441, 442
Xtensionduct and Fittings, National 100

Y

Yardlights, Silv-A-King 505

Electrical Catalog Department
The Jaqua Company
Grand Rapids 2, Michigan